A UNITED STATES DEPARTMENT OF COMMERCE PUBLICATION

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PART I
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Andis, Allen Richard. Tinning-oil level control for a solderwave apparatus. 3,452,916, 7-1-69, Cl. 228-36.
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Andrassy, Stella. Temperature maintaining device. 3,463,161, 8-26-69, Cl. 128-402.
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Andrea, John J.; Meier, James C.; and Hogue, Noel E., to Collins Radio Company. Hybrid counter. 3,420,990, 1-7-69, Cl. 235-92.
Andrea, Mario I.Ship's hull. 3,439,643, 4-22-69, Cl. 114-63.
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Andreotti, Eugene R.; and McGee, Sherwood W., to Burgess-Norton Mfg. Co. Method of making a structural alloy steel containing copper and other alloy elements. 3,459,547, 8-5-69, Cl. 75-208.
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Antler, Morton; and Krumbein, Simeon J., to Burndy Corporation. Corrosion resistant electric contacts. 3,484,209, 12-16-69, Cl. 29-195.

Antles, Ira A. Fingerprinting means. 3,448,723, 6-10-69, Cl. 118-503.

Antlfinger, George J.; and Bodzash, Maynard C., to Goodrich, B. F., Company, The. Vinyl polymers modified with drying alkyd resins or drying oils. 3,486,930, 12-30-69, Cl. 117-155.

Antlfinger, George J.; and von Kamp, Harold E., to Goodrich, B. F., Company, The. Vinyl chloride polymer compositions containing a vinyl chloride, vinyl acetate, vinyl alcohol terpolymer and an epoxy resin. 3,444,122, 5-13-69, Cl. 260-32.8

Anton, Anthony, to Du Pont de Nemours, E. I., and Company. Polyamide fibers stabilized with inorganic iodides and copper phthalates. 3,457,325, 7-22-69, Cl. 260-857.

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Anton, Jacob. Sheet metal stretching tool. 3,427,850, 2-18-69, Cl. 72-300.

Anton, Nicholas T.; and Daughetee, Lew H., to Wen Products, Inc. Vibratory tool. 3,434,247, 3-25-69, Cl. 51-170.

Antonelli, Joseph A.; and Zanger, Murray, to Du Pont de Nemours, E. I., and Company. Stain-resistant article, and composition for preparing same. 3,446,761, 5-27-69, Cl. 260-17.4

Antoniades, Emilios P., to Chevron Research Company. Thioether sulfonates. 3,471,551, 10-7-69, Cl. 260-501.14

Antonious, Anthony J. Golf club of the wood type with improved aerodynamic characteristics. 3,468,544, 9-23-69, Cl. 273-173.

Antoniu, Demetrio: *See—*
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Anwander, Elmar: *See—*
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Anway, Allen. Scriber gauge. 3,452,440, 7-1-69, Cl. 33-42.

Anweiler, Donald M. Golf club. 3,448,981, 6-10-69, Cl. 273-80.

Anweiler, Walter: *See—*
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Anyos, Tom; and Moyer, Wendell W., Jr., to Borg-Warner Corporation. Fluorescent polymers. 3,423,483, 1-21-69, Cl. 260-860.

Anzac Electronics, Inc.: *See—*
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Anzen Jidosha Kabushiki Kaisha: *See—*
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Aoe, Seigo; and Hashimoto, Kiyoji, to Kurashiki Rayon Co., Ltd. Doffing arrangement for centrifugal spinning system. 3,434,272, 3-25-69, Cl. 57-34.

Aoi, Katashi. Exhaust gas purifier for automobile. 3,421,315, 1-14-69, Cl. 60-29.

Aoi, Yoshizaburo. Suspender for thin objects. 3,434,686, 3-25-69, Cl. 248-316.

Aoki, Akira: *See—*
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Aoki Construction Co., Ltd.: *See—*
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Aoki, Katashi. Injection molding apparatus for making shoes. 3,429,007, 2-25-69, Cl. 18-30.

Aoki, Katsuo; and Yamaguchi, Terumoto, to Nippon Denso Kabushiki Kaisha. Method of making the stator core for rotary electric machinery. 3,436,812, 4-8-69, Cl. 29-596.

Aoki, Keisho, to Hagaron Co., Ltd. Stripping solution. 3,441,509, 4-29-69, Cl. 252-152.

Aoki, Koichi; Yamatani, Noboru; and Takeuchi, Hideo, to Minolta Camera Kabushiki Kaisha. Automatic exposure control camera for flash and daylight photography. 3,464,333, 9-2-69, Cl. 95-10.
Aoki, Setsuo; Shono, Setsuo; Ito, Ryoji; Arao, Yuzuru; and Hukunaga, Masao, to Matsushita Electric Industrial Co., Ltd. Blender. 3,458,175, 7-29-69, Cl. 259-108.
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Aoki, Toyohiko, to Naigaikogyo Kabushiki Kaisha. Apparatus for purifying polluted gas. 3,479,799, 11-25-69, Cl. 55-230.
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Tani, Hisaya; Araki, Takeo; and Aoyagi, Takanobu,3,454,615.
Aoyama, Hiroshi, to Trio Corporation. Automatic frequency sweep apparatus. 3,467,870, 9-16-69, Cl. 325-470.
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Cotter, Robert J.; Apel, Francis N.; and Conte, Louis B., Jr.,3,461,098.
Apel, Ormond H. G. Hanger for trousers. 3,464,605, 9-2-69, Cl. 223-96.
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Apice, Pasquale J., to Allied Chemical Corporation. Production of methylacetylpimeloguanamine. 3,437,660, 4-8-69, Cl. 260-249.9
Apicella, Anthony M., Jr.; Boling, Norman L.; and Franks, John T., Jr., to Goodyear Aerospace Corporation. Externally biased high speed non-destructive memory device. 3,425,046, 1-28-69, Cl. 340-174.
Apicella, Anthony M., Jr.; Boling, Norman L.; and Franks, John T., Jr., to Goodyear Aerospace Corporation. Memory element with a selective non-readout characteristic. 3,430,216, 2-25-69, Cl. 340-174.
Apicella, Anthony M., Jr.; Boling, Norman L.; and Franks, John T., Jr., to Goodyear Aerospace Corporation. Externally biased high speed non- destructive memory element. 3,465,318, 9-2-69, Cl. 340-174.
Apicella, Anthony M., Jr.; and Franks, John T., Jr., to Goodyear Aerospace Corporation. High speed associative memory. 3,465,310, 9-2-69, Cl. 340-174.
Apicella, Anthony M., Jr.; and Franks, John T., Jr., to Goodyear Aerospace Corporation. High speed hybrid ferrite film associate apparatus. 3,466,639, 9-9-69, Cl. 7-13.64
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Appelt, Weldon F.; and Mason, William H. Railway supporting box beam building construction. 3,430,582, 3-4-69, Cl. 104-124.
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Appleman, Milo D., to Schroeder, Jack J. Stable emulsion animal feed containing molasses and method of producing same. 3,420,672, 1-7-69, Cl. 99-6.
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Appleton, Arthur I. Explosion-proof plug and receptacle with switch means. 3,475,570, 10-28-69, Cl. 200-51.07
Appleton, Bernard S. Transmission belt. 3,451,282, 6-24-69, Cl. 74-229.
Appleton, Bernard S. Transmission belt. 3,479,893, 11-25-69, Cl. 74-235.
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Tani, Hisaya; Araki, Takeo; and Aoyagi, Takanobu,3,454,615.
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Armstrong, Elton C., to Fix-A-Roll Co. Rolling machine roller finishing apparatus. 3,468,075, 9-23-69, Cl. 51-254.

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Arnold, Heinz B.; and Floyd, Don E., to General Mills, Inc. Sulfhydryl resins. 3,423,480, 1-21-69, Cl. 260-18.
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Arnold, Loren Glenn; Sullivan, James Franklin; and Esbeck, Howard Christian, to Deere & Company. Plow. 3,481,407, 12-2-69, Cl. 172-285.
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Arnold, Melvin R., to Chemetron Corporation. Dehydrogenation catalyst. 3,448,058, 6-3-69, Cl. 252-443.
Arnold, Orlan M.; Hanson, Victor W.; Jamison, Robert M.; Panzica, Nicholas J.; and Umbricht, Emil, to Ajem Laboratories, Inc. Method and apparatus for cleaning contaminated gases. 3,475,881, 11-4-69, Cl. 55-94.
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Arnold, Ray E., to Brawley Steel Co. Apparatus for bending an elongated element. 3,430,478, 3-4-69, Cl. 72-298.
Arnold, Roger F., to Grace, W. R., & Co. White tacky spray booth coating. 3,476,575, 11-4-69, Cl. 106-2.
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Arnold, Walter; and Ostertag, Karl, to Vereinigte Glanzstoff-Fabriken AG. Apparatus and processes for the preparation of an endless thread cable for precision cutting. 3,423,497, 1-21-69, Cl. 264-140.
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Ausfeld, Rudolf Arthur. Power line communication systems. 3,483,546, 12-9-69, Cl. 340-310.

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Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; and Shelly, William A., to General Electric Company. Data processing system including address development apparatus. 3,454,931, 7-8-69, Cl. 340-172.5

Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; Shell, Donald L.; and Shelly, William A., to General Electric Company. Data processing system employing indirect addressing apparatus. 3,454,932, 7-8-69, Cl. 340-172.

Bahrs, David L.; Couleur, John F.; Gudenschwager, Philip F.; Ruth, Richard L.; Shelly, William A.; and Weil, John W., to General Electric Company. Data processing system. 3,454,933, 7-8-69, Cl. 340-172.5

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Bahrs, David L.; Couleur, John F.; Ruth, Richard L.; and Shelly, William A., to General Electric Company. Intercommunicating multiple data processing system. 3,483,525, 12-9-69, Cl. 340-172.5

Bahrs, George S.; and Mc Whorter, Malcolm M., to Hewlett-Packard Company. Regulated power supply having current comparator referenced to common conductor. 3,441,833, 4-29-69, Cl. 323-9.

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Baibakov, Nikolai Konstantinovich; Ivanjukov, Diomid Vasilievich; Bergo, Boris Georgievich; Gersh, Viktor Semenovich; Vanov, Viktor Ivanovich; Cherny, Ilya Rafailovich; Epstein, Roman Iosifovich; Bochaver, Kirill Zyskovich; and Alentieva, Olga Anatolievna. Demethanization of separated liquid through heat exchange with separated vapor. 3,442,090, 5-6-69, Cl. 62-23.

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Baier, Robert J.; and Mack, John C., to Boeing Company, The. Power transmission system. 3,420,072, 1-7-69, Cl. 64-1.

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Bailey, John M., Jr., to Xerox Corporation. Variable font character generator. 3,422,737, 1-21-69, Cl. 95-4.5

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Bailey, John M.; Krauja, Ziedonis I.; and Tegg, Ralph , Jr., to Caterpillar Tractor Company. Rotary distributor fuel pump. 3,485,225, 12-23-69, Cl. 123-139.

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Baldwin, Philip F., to Steel Company of Canada Limited, The. Printer for tinning lines. 3,481,816, 12-2-69, Cl. 156-345.

Baldwin, Philip Sidney, 1/2 to Fiat Societa per Azioni. Pressure reducer device for hydraulic brakes. 3,443,382, 5-13-69, Cl. 60-54.5

Baldwin, Richard H.; and Fragen, Nathan, to Standard Oil Company (Indiana). Combination of apparatus elements for production and recovery of distillable aromatic acid. 3,472,630, 10-14-69, Cl. 23-285.

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Baldwin, William E., to General Electric Company. Electrical pulsing circuit with automatic switching means. 3,433,970, 3-18-69, Cl. 307-11.

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Baldyga, Joseph W., to Diamond Die & Mold Co. Method and apparatus for crimping electrical connectors. 3,456,480, 7-22-69, Cl. 72-362.

Bale, Alton G., Jr., to Wisconsin Electrical Mfg., Co., Inc. Batching control system. 3,434,556, 3-25-69, Cl. 177-70.

Balej, Jan; Paseka, Ivo; Vondrak, Jiri; and Regner, Albert, to Ceskoslovenska akademie ved. Electrolyzer for a simultaneous production of chlorine and alkaline carbonates. 3,431,193, 3-4-69, Cl. 204-266.

Balency-Bearn, Andre. Constructional building panel. 3,462,898, 8-26-69, Cl. 52-208.

Balent, Ralph; Wetch, Joseph R.; and Cohen, Emanuel Richard, to North American Rockwell Corporation. Small nuclear reactor heat source. 3,449,208, 6-10-69, Cl. 176-50.

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Bales, John W., Jr.; and Giunta, Joseph S., to United States Steel Corporation. Drain valve for tank bottom. 3,448,771, 6-10-69, Cl. 137-614.

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Balinkin, Isay. Color demonstration device. 3,425,138, 2-4-69, Cl. 35-28.3

Balinski, Henry A., to United States Gypsum Company. Structural member. 3,461,638, 8-19-69, Cl. 52-732.

Balint, Andrew; Bixby, William E.; and Tyler, Len A., to Bell & Howell Company. Method and apparatus for eliminating tears and streaks in electrostatography. 3,424,579, 1-28-69, Cl. 96-1.

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Rostislav Evgenievich. Flanged joint for high-vacuum systems, particularly large systems. 3,468,561, 9-23-69, Cl. 285-23.
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Ball, Eric, to Angus, George, & Company Limited. Method of making a hose pipe of helically wound Strips of thermoplastic materials. 3,428,507, 2-18-69, Cl. 156-188.
Ball, Gerald V., to Mipro Metal Products Company. Separate ballast base for waste receptacles such as garbage cans. 3,471,114, 10-7-69, Cl. 248-346.
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Barbieri, John Dante; and Gucker, George. Resolving compass utilizing photo- potentiometers. 3,480,788, 11-25-69, Cl. 250-237.
Barbin, Robert L., to Radio Corporation of America. Auxiliary beam deflection yoke. 3,424,942, 1-28-69, Cl. 315-27.
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Bargeron, Kim G.; and Soderquist, Fred J., to Dow Chemical Company, The. Preparation of vinylidene aromatic compounds by pyrolysis of diaryl aliphatic compounds. 3,441,625, 4-29-69, Cl. 260-669.
Bargfeldt, Howard G., to United States Steel Corporation. Tension roll housing for cold strip mills. 3,482,426, 12-9-69, Cl. 72-205.
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Barkalow, Clare E.; and Folkerth, Ilden R., to Michigan Instruments, Inc. Cardiac compressor and ventilation means. 3,461,861, 8-19-69, Cl. 128-53.
Barkan, Philip, to General Electric Company. Gas blast circuit breaker with improved resistor switch. 3,435,166, 3-25-69, Cl. 200-148.
Barkan, Philip, to General Electric Company. Axial blast interrupter with arc-rotating means. 3,471,666, 10-7-69, Cl. 200-148.
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Barker, George E., to Monsanto Company. Electropneumatic valve positioner. 3,455,532, 7-15-69, Cl. 251-29.
Barker, George E., to Monsanto Company. Self-aligning valve seat. 3,455,536, 7-15-69, Cl. 251-333.

Barker, George E., to Monsanto Company. Electropneumatic valve positioner. 3,462,115, 8-19-69, Cl. 251-29.
Barker, George E., to Monsanto Company. Modulating control valve. 3,469,590, 9-30-69, Cl. 137-1.
Barker, George E., to Monsanto Company. Pulsed solenoid control valve. 3,470,892, 10-7-69, Cl. 137-1.
Barker, George E., to Monsanto Company. Pulsed solenoid force balance device. 3,476,128, 11-4-69, Cl. 137-1.
Barker, Guy, Jr., to Lorraine Industries, Inc. Foldable chair. 3,453,023, 7-1-69, Cl. 297-47.
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Barker, John; Gonek, Stanislaw Mieczyslaw; and Love, Kenneth George, to English Electric Company Limited, The. Electric circuit breaker having high- pressure, low-velocity gas blast. 3,453,407, 7-1-69, Cl. 200-148.
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Barker, Layle B., to Reynolds Metals Company. Interlocking roof deck and wall construction. 3,420,028, 1-7-69, Cl. 52-588.
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Barker, Richard G., to Union Camp Corporation. Sodium polysulfide pulping process and regeneration. 3,470,061, 9-30-69, Cl. 162-32.
Barker, Robert S., to Halcon International, Inc. Process for preparing an aminated benzene. 3,442,950, 5-6-69, Cl. 260-576.
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Barker, Stephen; and Fleck, Ray D., to Utility Trailer Mfg. Company. Dual purpose dolly for semitrailers. 3,421,778, 1-14-69, Cl. 280-476.
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Barlow, Jesse P.; Barton, Richard; Belt, John E.; Frasier, Carlton R.; Hittel, Lorenz Alvin; Rakoczi, Laszlo L.; Torfeh, Mark A.; and Wiener, Jerome B., to General Electric Company. Apparatus providing symbolic memory addressing in a multicomputer system. 3,487,373, 12-30-69, Cl. 340-172.5
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Barlow, Malcolm; and Planting, Peter J., to Bell Telephone Laboratories, Incorporated. Mercury contact switch having an alloy contact. 3,431,377, 3-4-69, Cl. 200-166.
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Barltrop, Richard Kenneth, to Elliott Brothers (London) Limited. Monitoring of control systems. 3,462,660, 8-19-69, Cl. 318-18.
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Barmeier, Harold J., Jr.; and Wolff, Norman, to Sperry Rand Corporation. Permeability-sensing control system that utilizes a probe which has a magnet, a magnetometer, and a gap-containing path

of magnetic material shunting and close to that magnetometer. 3,445,758, 5g20-69, Cl. 324-34.
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Barnack, Henry C. Sheet metal brake. 3,481,174, 12-2-69, Cl. 72-319.
Barnack, Henry C. Sheet metal brake. 3,482,427, 12-9-69, Cl. 72-319.
Barnard, Benjamin R.; and Maass, Gustav, to Paul Foundry & Manufacturing Company. Movable shock-absorbing bulkheads. 3,451,357, 6-24-69, Cl. 105-376.
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Barrington, Charles E., to Goodyear Tire & Rubber Company, The. Wheel brake disk drive key. 3,438,464, 4-15-69, Cl. 188-72.
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Barry, Austin W., to G-V Controls Inc. Battery charging control responsive to rate of rise of battery voltage. 3,424,969, 1-28-69, Cl. 320-21.
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Bart, Philip D. Rotating toy simulated aircraft. 3,476,386, 11-4-69, Cl. 272-31.
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Bartek, Raymond W., to Allegheny Ludlum Steel Corporation. Descaling of alloys by high temperature surface vaporization. 3,467,549, 9-16-69, Cl. 134-4.
Bartel, Richard F., to San Diego Gas & Electric Company. Apparatus for cleaning gas meter surfaces. 3,421,168, 1-14-69, Cl. 15-21.
Bartell, Charles; Milutin, Ivan Cutukovic; Porsche, Jules Downes; and Rolih, Robert John, to Borden, Inc. Pressure-sensitive tape coated with a release agent. 3,475,196, 10-28-69, Cl. 117-68.5
Bartels, Erich, to Firma Rheinmetall G.m.b.H. Wedge breech block for guns with exchangeable ring packings. 3,420,139, 01/0769, Cl. 89-17.
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Bartelt Engineering Company, Inc.: *See—*
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Barten, Ernst Heinrich, to Achenbach Sohne G.m.b.H. Reeling-off apparatus for use in connection with one-way rolling mills. 3,441,234, 4r29-69, Cl. 242-80.

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Barth, George J., Jr.: *See—*
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Cotter, Howard E.; and Barth, Jay E.,3,441,225.

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Barth, Manfred Frans, to Kienzle Uhrenfabriken G.m.b.H. Stepping device for tuning fork oscillator. 3,425,210, 2-4-69, Cl. 58-23.

Barthalon, Maurice. Reciprocating electric motor. 3,461,806, 8-19-69, Cl. 103-53.

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Barthel, Gerhard. Greenhouse air-cooling system. 3,450,194, 6-17-69, Cl. 165-18.

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Bartholomay, Robert P.; Robinson, Wilbur D.; and Farrar, Harold J., to Eastman Kodak Company. Web splicer. 3,440,126, 4-22-69, Cl. 156-505.

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Bartholomew, Earl, to Ethyl Corporation. Engine improvements. 3,447,516, 6-3-69, Cl. 123-97.

Bartik, William J., to Sperry Rand Corporation. Magnetic switch for reading and writing in an NDRO memory. 3,422,409, 1-14-69, Cl. 340-174.

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Bartlett, Churchill W., to Eaton Yale & Towne, Inc. Stress peening steel articles. 3,438,229, 4-15-69, Cl. 72-53.

Bartlett, David S., Jr., to FMC Corporation. Apparatus for separating fruit from dirt clods and debris. 3,473,658, 10-21-69, Cl. 209-108.

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Bartley, Erle E.; and Scott, George C., said Bartley assor. to Kansas State University Research Foundation. Method and preparations for the prevention and treatment of bloat in ruminants. 3,465,083, 9-2-69, Cl. 424-342.

Bartley, George Wells, to Underground Mining Machinery Limited. Track braking system. 3,444,964, 5-20-69, Cl. 188-39.

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Barton, David W.; and Russell, Richard G., to Ford Motor Company. Redundant support for brake pedal. 3,451,288, 6-24-69, Cl. 74-512.
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Barton, James, to Ionic International, Inc. Forced air curtain wall for hoist and auxiliary equipment. 3,444,802, 5-20-69, Cl. 98-115.
Barton, Jerry M., to Du Pont de Nemours, E. I., and Company. Preparation of tetramethylethyl leads. 3,478,072, 11-11-69, Cl. 260-437.
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Barton, Oliver A.; and Eckardt, Carl R., to Allied Chemical Corporation. Chlorinated polyethylene coated fabrics and method of making the same. 3,458,350, 7-29-69, Cl. 117-161.
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Beach, Richard G., to Taylor Instrument Companies. Lever device. 3,420,147, 1-7-69, Cl. 92-37.

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Beacham, Harry H.; Segro, Nicholas R.; and Thomas, James L., to FMC Corporation. Flame-retardant resinous compositions. 3,483,158, 12-9-69, Cl. 260-41.

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Bechtloff, Gert; and Szonn, Reinhold, to Lemforder Kunststoff G.m.b.H., , Co. K.G., and Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Conveyor installation and conveyor belt system therefor. 3,429,420, 2-25-69, Cl. 198-165.
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Bennett, John D., to Sun Oil Company. Process and apparatus for the distillation of solids. 3,481,720, 12-2-69, Cl. 48-89.
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Bennett, John Stanley William, to Gardner, J. Starkie, Limited. Structural unit particularly for staircases. 3,422,924, 1-21-69, Cl. 182-194.
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Bennett, Milton C.; and Kulhavy, Joseph A., to Case, J. I., Company. Tractor-implement hitch system. 3,435,901, 4-1-69, Cl. 172-9.
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Bennett, Royston Henry; and Cottrell, David Walter, to Imperial Smelting Corporation (N.S.C.) Limited. Fluorination of halogenated organic compounds. 3,453,337, 7-1-69, Cl. 260-650.
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Bensinger, Wolf-Dieter, to Daimler-Benz Aktiengesellschaft. Piston for a rotary piston internal combustion engine. 3,461,848, 8-19-69, Cl. 123-8.

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Bensinger, Wolf-Dieter; Dobler, Helmut; and Lamm, Heinz, to Daimler-Benz Aktiengesellschaft. Rotary piston engine. 3,420,214, 1-7-69, Cl. 123-8.

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Benson, Allen B.; Gorbatenko, George G.; Jursik, James; Kath, Ronald E.; Ovrebo, Jerry D.; and Skrenes, David H., to International Business Machines Corporation. Sample and hold circuit. 3,480,795, 11-25-69, Cl. 307-235.

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Benson, John O.; and Moen, Rolf, to General Mills, Inc. Process for preparing a puffed, concave shaped cereal product. 3,447,931, 6-3-69, Cl. 99-81.

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Best, Carl L. Complete multipurpose straight line sprinkler. 3,424,381, 1-28-69, Cl. 239-97.

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Best, Stanley G., to United Aircraft Corporation. Cabin pressure fault detector. 3,434,407, 3-25-69, Cl. 98-1.5

Best, Stanley G., to United Aircraft Corporation. Altitude-to-pressure transformation. 3,447,377, 6-3-69, Cl. 73-384.

Best, Stanley G., to United Aircraft Corporation. Magnetic shield for working with a beam of charged particles. 3,458,682, 7-29-69, Cl. 219-121.

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Best, William V.; and Hughes, Roland L., to Owens-Illinois, Inc. Preparation of luminescent silica glass modified with a rare earth metal. 3,459,673, 8-5-69, Cl. 252-301.4

Best, William V.; Hughes, Roland L.; and Austin, Lewis M., to Owens-Illinois Glass Company. Art of producing metal salt impregnated silica- coated substrates. 3,440,092, 4-22-69, Cl. 117-33.5

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Beumel, Oscar F., Jr.; Smith, William Novis, Jr.; and Harris, Robert F., to Foote Mineral Company. Method for making lithium borohydride. 3,460,919, 8-12-69, Cl. 23-364.

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Bevilacqua, Frank; and West, John M., to Combustion Engineering, Inc. Containment pressure reduction system and radioactivity removal system for nuclear reactor installations. 3,459,635, 8-5-69, Cl. 176-37.

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Beyer, John H.; and Boyles, Alfred, to United States Pipe and Foundry Company. Method for rounding pipe. 3,464,253, 9-2-69, Cl. 72-364.
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Bezanis, Perry S. Anti-shark safety device. 3,477,074, 11-11-69, Cl. 9-11.315
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Bickford, John H.; and Blinow, Igor, to Veeder Industries Inc. Fluid dispensing apparatus with cost and volume registers. 3,484,021, 12-16-69, Cl. 222-26.
Bickford, John H.; Haberstroh, Albert; and Donovan, Lawrence J., to Veeder Industries Inc. Self-service fluid dispensing system. 3,469,741, 9-30-69, Cl. 222-2.
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Biegler, Hanns; Kallrath, Gottfried; and Klein, Kurt, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the production of hydrophobic particulate materials from water glass. 3,484,371, 12-16-69, Cl. 210-40.
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Biel, John H.; and Graeve, Rolf E., to Aldrich Chemical Company, Inc. Alpha-4-dimethylamino and pyrrolidino-1,2 diphenyl-3-methyl-2-butyl cyclopropane carboxylates. 3,426,037, 2-4-69, Cl. 260-326.3
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Bieler, Barrie H.; and Madison, Robert P., to Dow Chemical Company, The. Continuous solid particle shape classifier. 3,464,550, 9-2-69, Cl. 209-112.
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Bierman, Howard R. Pressure infusion device for ambulatory patients with pressure control means. 3,468,308, 9-23-69, Cl. 128-214.
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Big Drum, Inc.: *See—*
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Big Dutchman International, A.G.: *See—*
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Bigi, Mario. Road barrier with pivotable span joints. 3,447,786, 6-3-69, Cl. 256-13.1
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Binder, Herbert; and Delaney, Robert V., to Singer-General Precision, Inc. Combination two-axis electromagnetic torque and pickoff. 3,475,971, 11-4-69, Cl. 74-5.6
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Binder, Joseph Morris, to Air Products and Chemicals, Inc. Purification of oil-contaminated water. 3,420,039, 1-7-69, Cl. 55-45.
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Binnix, William B. Pneumatic separator and classifier apparatus and method. 3,424,309, 1-28-69, Cl. 209-44.
Binns, Jack N. Tool holder. 3,466,721, 9-16-69, Cl. 29-97.
Binoche, Michel L., to S. K. V., Societe Anonyme. Spray gun nozzle heads. 3,463,395, 8-26-69, Cl. 239-15.
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Binon, Fernand; Ziegler, Herbert; and Marr, Claude, to Societe Belge de l'Azote et des Produits Chimiques de Marly, S.A. Process for the preparation of 1- and d-carnitine chlorides. 3,462,485, 8-19-69, Cl. 260-534.
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Bird, Forrest M.; and Pohndorf, Henry L. Pulmonary therapy respirator. 3,460,532, 8-12-69, Cl. 128-145.6
Bird, Forrest M.; and Pohndorf, Henry L. Spirometer. 3,467,078, 9-16-69, Cl. 128-2.08
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Birnbaum, Milton, to Aerospace Corporation, The. Laser arrangement. 3,427,565, 2-11-69, Cl. 331-94.5
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Biro, Alexander J., to Season-All Industries, Inc. Unitary prehung door and frame. 3,430,385, 3-4-69, Cl. 49-380.
Biro, Alexander J., to Season-All Industries, Inc. Window structure. 3,449,862, 6-17-69, Cl. 49-406.
Biro, Alexander J., to Season-All Industries, Inc. Method and structure for tightening secured matched abutting tubular stiles and rails by the contraction of the joined tubular members on a gusset. 3,472,543, 10-14-69, Cl. 287-189.36
Biro, Attila, to Koho-es Gepipari Miniszterium Tuzellestechnikai Kutatointezelt. Industrial furnace built of radiating elements. 3,473,795, 10-21-69, Cl. 263-41.
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Birum, Gail H., to Monsanto Company. Fungicidal compositions and methods using mesomeric phosphonium compounds. 3,458,630, 7-29-69, Cl. 424-204.
Birum, Gail H.; and Matthews, Clifford N., to Monsanto Company. Mesomeric phosphonium salts. 3,426,073, 2-4-69, Cl. 260-606.5
Birum, Gail H.; and Matthews, Clifford N., to Monsanto Company. Fungicidal compositions and methods using mesomermic phosphonium compounds. 3,445,570, 5-20-69, Cl. 424-204.
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Bishop, Frederic L., to Owens-Illinois, Inc. Composite lamp article with glass-ceramic lamp envelope. 3,451,579, 6-24-69, Cl. 220-2.1
Bishop, Frederic L., to Owens-Illinois, Inc. Devitrifying solder glass. 3,485,648, 12-23-69, Cl. 106-53.
Bishop, Frederic L.; Cook, Eugene M.; and Florence, Jack M., to Owens-Illinois, Inc. Method of tempering and imparting a protective scratch-resistant coating to a glass article. 3,475,150, 10-28-69, Cl. 65-60.
Bishop, George E.; and McManis, Donald L., to Collins Radio Company. Automatic direction control for an electrical motor. 3,465,222, 9-2-69, Cl. 318-33.
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Bishop, John D., to Bell Telephone Laboratories, Incorporated. Saturable reactor/constraining inductor arrangement. 3,432,741, 3-11-69, Cl. 321-45.
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Bishop, Leonard J., to American Chain & Cable Company, Inc., mesne. Accumulating tow truck conveyor system. 3,451,353, 6-24-69, Cl. 104-172.
Bishop, Lewis H., to Pierce Specialized Equipment Co. Air conveyer and unloader for granular materials and unloading process therefor. 3,454,307, 7-8-69, Cl. 302-55.
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Blackburn, Richard D., to General Electric Company. Time delay circuit for regulator control circuit. 3,427,469, 2-11-69, Cl. 307-130.
Blackburn, Robert S., to McDonnell Douglas Corporation, mesne. Valve with isolated valve actuating mechanism. 3,442,487, 5-6-69, Cl. 251-257.
Blackburn, Walter L. Wedge button. 3,483,841, 12-16-69, Cl. 114-218.
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Blackman, Seymour N. Mercury glass clinical thermometer with maximum temperature recording trap and method of making the trap. 3,460,390, 8-12-69, Cl. 73-371.
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Blackmer, Leroy L., to Eastman Kodak Company. Diffraction grating recording. 3,453,640, 7-1-69, Cl. 346-1.
Blackmon, Laura Mae. Artists' supply cases. 3,446,337, 5-27-69, Cl. 206-1.7
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Blair, Calvin B., to United Manufacturers, Inc. Bale accumulator for special field conditions. 3,443,708, 5-13-69, Cl. 214-353.
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Blair, Larry Keene; and Grot, Walther Gustav, to Du Pont de Nemours, E. I., and Company. Perfluorovinylacetyl fluoride. 3,454,633, 78-69, Cl. 260-544.
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Bloeck, Siegfried, to Swiss Aluminium Ltd. Process for producing inorganic layers of metallic articles. 3,473,971, 10-21-69, Cl. 148-6.27

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Bloemhard, Walter J., to Columbia Gas System Service Corporation. Apparatus for launching and extracting spheroids in underwater pipelines. 3,469,408, 9-30-69, Cl. 61-69.

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Van Riet, Josef H.; Stummer, Wilfried; Sandmann, Fritz; and Gallin, Constantin, 3,440,990.

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Blohm, Robert. Fall-through barrier for threaded spindles. 3,464,164, 9-2-69, Cl. 51-168.

Bloise, George N. Wheel suspension and steering mechanism. 3,479,050, 11-18-69, Cl. 280-95.

Blok, Dirk Evert, to Hunter Douglas International Ltd. Facade cladding, in particular for a bungalow. 3,453,794, 7-8-69, Cl. 52-466.

Blom, Kenneth M.; and Ramirez, Carmen L., to Butler Manufacturing Company. Brace rod washer. 3,438,300, 4-15-69, Cl. 85-50.

Blomberg, Gote Einar Erling. Rain cover for hatchways and the like. 3,461,891, 8-19-69, Cl. 135-6.

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Blomgren, Archie H. Scaffold apparatus. 3,486,579, 12-30-69, Cl. 182-178.

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Blomgren, Oscar C., Jr., to Tuxco Corporation. Fuel consumption rate measurement for diesel engines. 3,423,998, 1-28-69, Cl. 73-113.

Blomgren, Oscar C., to Liquid Controls Corporation. Rotary fluid displacement device. 3,465,683, 9-9-69, Cl. 103-125.

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Blomsrand, John H. Connector with helically wound spring and external means for releasing the spring to cause gripping of wires. 3,440,334, 4-22-69, Cl. 174-87.

Blomstrand, John H. Connector with grooved sleeve and helically wound spring for gripping wires when released. 3,440,332, 4-22-69, Cl. 174-87.

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Blondeel, Nicholas J. Method and apparatus for automatic chromatography. 3,474,031, 10-21-69, Cl. 210-31.

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Blood, Alden E.; Dworsky, Joseph E., Jr.; and Hagemeyer, Hugh J., Jr., to Eastman Kodak Company. Telomerization process. 3,429,901, 2-25-69, Cl. 260-410.9

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Bloom, Leon M., to Bio-Lab., Inc. Method and apparatus for dissolving a slightly soluble substance in a liquid. 3,468,809, 9-23-69, Cl. 137-1.

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Bloom, Murray, to TRW Inc. Method of cathodically sputtering a layer of silicon having a reduced resistivity. 3,463,715, 8-26-69, Cl. 204-192.

Bloom, Murray, to TRW Inc. Sputter depositing semiconductor material and forming semiconductor junctions through a molten layer. 3,480,535, 11-25-69, Cl. 204-192.

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Blosser, Robert L., Jr., to Sperry Rand Corporation. Fluidic diode or sensor device. 3,472,258, 10-14-69, Cl. 137-81.5

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Blount, William W., Jr.; Gibson, Roger E.; and Tholstrup, Clarence E., to Eastman Kodak Company. Stabilization of polyolefins with oxalyldihydrazides. 3,440,210, 4-22-69, Cl. 260-41.

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Bluestein, Ben A., to General Electric Company. Method for making cyanoalkyl-substituted organopolysiloxanes. 3,448,076, 6-3-69, Cl. 260-46.5

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Bohme, Georg Eduard Wilhelm; and Hagen, Armin Theodor, to Gesellschaft Fur Kernforschung m.b.H. Remotely controlled manipulator. 3,482,711, 12-9-69, Cl. 214-1.

Bohmer, Hellmut: *See*—
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Bohmer, Hellmut, to Leitz, Ernst, G.m.b.H. Panoramic telescope. 3,463,567, 8-26-69, Cl. 350-26.

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Geisman, Jerome B.; and Randmae, Rein S., 3,466,124.

Bohn, Donald I. Multi-layered magnetic shield for a magnetic vise. 3,428,305, 2-18-69, Cl. 269-75.

Bohn, Frank G. Simulated firearm with pivotally mounted whiskey glass. 3,450,403, 6-17-69, Cl. 272-1.

Bohn, Hans-Joachim; and Seidl, Gunther, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of L-(-)-β- (3.4-dihydroxy-phenyl)-α-methylalanine. 3,470,233, 9-30-69, Cl. 260-473.

Bohn, Lothar; Jastrow, Horst; Leugering, Jans-Joachim; and Vetter, Hans-Joachim, to Hercules Incorporated. Copolymers of 4-methylpentene-1 with other olefins. 3,472,917, 10-14-69, Cl. 260-878.

Bohn, Martin C.; Brady, John F.; Spinello, John O.; and Rice, Kenneth G., to Chicago Clutch Manufacturing Co., Inc. Self adjusting clutch release bearing assmbly. 3,433,341, 3-18-69, Cl. 192-111.

Bohn, Richard E.; and Patel, Pravin B., to Sylvania Electric Products, Inc. High speed digital logic circuit having non- saturating output transistor. 3,473,047, 10-14-69, Cl. 307-215.

Bohn, Samuel. Sealing joint. 3,466,801, 9-16-69, Cl. 49-404.

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Bohna, B. D., & Co.: *See*—
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Bohne, Hugh; and Shelton, Cecil B., to International Telephone and Telegraph Corporation. Water vapor control in vapor-solid diffusion of boron. 3,484,314, 12-16-69, Cl. 148-188.

Bohne, William C. Core grab. 3,485,388, 12-23-69, Cl. 214-1.

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Bohnet's Bakery, Mrs., Inc.:*See*—
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Bohrer, Albert H., Sr. Traffic control signal. 3,435,412, 3-25-69, Cl. 340-107.

Bohrer, Byron B., to Sun Oil Company. Cracking of hydrocarbons. 3,480,689, 11-25-69, Cl. 260-683.

Bohrer, Byron B.; and Kurtz, Stewart S., Jr., to Avisun Corporation. Recovery of alpha-olefin polymers from solution. 3,431,249, 3-4-69, Cl. 260-93.7

Bohrer, Thomas C., to Celanese Corporation. Process for producing water-soluble cellulose acetate fibers. 3,482,011, 12-2-69, Cl. 264-207.

Bohy, August G., to PPG Industries, Inc. Method and apparatus for winding glass strand. 3,482,953, 12-9-69, Cl. 65-2.

Boiardi, Mario J. Facing unit with embedded fastening means capable of being unwound therefrom. 3,486,280, 12-30-69, Cl. 52-127.

Boice, Clarence L.; and Allen, Joseph Stevens, to Allen Electronics, Inc. Method of and apparatus for reproducing signals recorded on magnetic tape with head switching means. 3,476,873, 11-4-69, Cl. 178-6.6

Boice, Elvin G.; and Wong, Lip Fou, to Reynolds Metals Company. Apparatus for and method of straightening bow means in an elongated member. 3,429,169, 2-25-69, Cl. 72-297.

Boice, William K., to General Electric Company. Adjustable speed drive system with friction compensation. 3,458,791, 7-29-69, Cl. 318-327.

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Boichot, Claude: *See*—
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Boige, Jean. Process for the industrial manufacture of hydroxocobalamin. 3,448,099, 6-3-69, Cl. 260-211.7

Boik, Arnold R., to Continental Can Company, Inc. Pressure relief score. 3,485,410, 12-23-69, Cl. 220-54.

Boik, Arnold R.; and Stec, Frederick J., to Continental Can Company, Inc. Method of forming blow-off resistant easy opening beverage can. 3,426,714, 2-11-69, Cl. 113-121.

Boiko, Anatoly Nickolaevich: *See*—
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Boiko, Marvin M.; and Schneider, Carl H., to Tri-Bros. Chemical Corporation. Method of descaling open water systems. 3,424,688, 1-28-69, Cl. 252-87.

Boilard, Dennis I.; and Mizuhara, Albert, to Varian Associates. Efficient radiation cooled beam collector for linear beam devices. 3,448,313, 6-3-69, Cl. 313-40.

Boileau, Jacques, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Safety devices for tire covers. 3,426,821, 2-11-69, Cl. 152-155.

Boileau, Jacques, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Pneumatic springs. 3,438,309, 4-15-69, Cl. 92-103.

Boileau, Jacques; Desseigne, Gerard; and Konrat, Jean Paul, to Etat Francais, represente par le Ministre, des Armees, Delegation Ministerielle pour l'Armement (Direction des Poudres). Explosive containing hexogene or octogene and a nitrated n-methylaniline. 3,466,205, 9-9-69, Cl. 149-18.

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Boise Cascade Corporation: *See*—
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Meyer, Robert W., 3,467,299.
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Boisis, Salomon A. Folding pedal gear for a bicycle. 3,422,701, 1-21-69, Cl. 74-594.7

Boisse, Ronald J., to Mr. Christmas, Inc. Method of producing a decorative material and article produced by said method. 3,484,329, 12-16-69, Cl. 161-12.

Boisseau, Lucien, to Societe des Forges et Ateliers du Creusot. Retarding device for the delivery end of a printing machine. 3,421,757, 1-14-69, Cl. 271-80.

Boissevain, Mathew G., to FMC Corporation. Method of and apparatus for liquid handling and dialysis. 3,479,280, 11-18-69, Cl. 210-22.

Boissevain, Mathew G.; and Schneebeli, Jean Pierre. Liquid sealed continuous combustion engine. 3,446,016, 5-27-69, Cl. 60-39.45

Boissevain, Mathew G.; and Traube, Robert J., to FMC Corporation. Apparatus for handling articles in a warehouse. 3,458,062, 7-29-69, Cl. 214-16.4

Boissevain, Mathew G.: *See*—
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Boissier, Jacques Robert; and Combes, Georges Andre, to Societe Anonyme dite Societe Industrielle Pour la Fabrication des Antibiotiques (S.I.F.A.). Tetracycline cyclohexyl sulphamate and process for preparation. 3,459,854, 8-5-69, Cl. 424-128.

Boissier, Jacques Robert; and Ratouis, Roger, to Societe Anonyme dite: Societe Industrielle Pour la Fabrication des Antibiotiques (S.I.F.A.). Aminoethers derived from 9,10-ethano-9,10- dihydro-9-anthrol and their salts and process for preparation thereof. 3,422,106, 1-14-69, Cl. 260-253.

Boissieras, Jean; and Ceyzeriat, Louis Frederic, to Rhone-Poulenc S.A. Organosilicon compounds and compositions containing the same. 3,429,847, 2-25-69, Cl. 260-37.

Boissieras, Jean; and Lefort, Marcel, to Rhone-Poulenc S.A. Organopolysiloxanes, their preparation and their uses. 3,444,225, 5-13-69, Cl. 260-448.2

Boissiere, Jacques G.: *See*—
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Boissonnas, Roger; and Huguenin, Rene, to Sandoz Ltd., (also known as Sandoz A.G.). Desamino^{2}-arginine^{8}-vasopressin. 3,454,549, 7-8-69, Cl. 260-112.5

Boivent, Marcel, to Compagnie de Saint-Gobain. Method of melting glass. 3,443,921, 5-13-69, Cl. 65-134.

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Boivin, Horace. Floor covering. 3,445,320, 5-20-69, Cl. 161-83.

Boiziau, Claude, to Commissariat a l'Energie Atomique. Method and apparatus for selecting gas pressures over a wide range. 3,449,659, 6-10-69, Cl. 324-33.

Bojas, Edward J., to Eaton Yale & Towne, Inc. Power limiter control. 3,448,578, 6-10-69, Cl. 60-53.

Bok, Cornelis; Selling, Hendrik Johannes; and Van Den Boom, Martinus Adriaan, to Nederlandse Centrale Organisatie voor Toegepast- Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid. Method for the production of yarn and a yarn obtained by applying the said method. 3,447,310, 6-3-69, Cl. 57-164.

Bok, Edward. Method of manufacturing bag closures. 3,439,468, 4-22-69, Cl. 53-14.

Bok, Edward, to Dike, Inc. Drafting pen with vent valve. 3,463,598, 8-26-69, Cl. 401-259.

Bok, Edward, to Dike, Inc. Drafting pen with extensible tip. 3,486,830, 12-30-69, Cl. 401-260.

Bok, Hendrik F. Method for controlling a spray-coating environment. 3,475,202, 10-28-69, Cl. 117-102.
Bok, Hendrik F. Sealed sprayer and baffle combination for a spray-coating environment. 3,478,720, 11-18-69, Cl. 118-323.
Bokma, Mindert P.: *See—*
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Boksjo, Ingvar; Olsson, Karl-Erik; and Svedberg, Per. Allmanna Svenska Elektriska Aktiebolaget Thyristor circuit with over-voltage protection. 3,487,261, 12-30-69, Cl. 315-150.
Bol, Morris; Deaver, Bascom S., Jr.; and Fairbank, William M. Superconductive circuit and method for measuring magnetic fields and magnetic properties of materials employing serially connected superconductive loops. 3,454,875, 7-8-69, Cl. 324-47.
Boland, Lawrence J.; Mizzi, John V.; and Smith, John W., to International Business Machines Corporation. Control system for interleave memory. 3,449,724, 6-10-69, Cl. 340-172.5
Boland, Steven H., to Ultra-Violet Products, Inc. Stabilized light source for operation at substantially constant temperature and intensity. 3,457,454, 7-22-69, Cl. 315-115.
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Boldebuck, Edith M.; and Gaertner, Richard F., to General Electric Company. Polymer solutions and methods for preparing and using the same. 3,440,202, 4-22-69, Cl. 260-31.2
Boldebuck, Edith M.; and Holub, Fred F., to General Electric Company. Coating solutions and methods for preparing and using the same. 3,440,196, 4-22-69, Cl. 260-29.2
Boldebuck, Edith M.; and Holub, Fred F., to General Electric Company. Coating solutions and methods for preparing and using the same. 3,440,197, 4-22-69, Cl. 260-29.2
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Bolhofer, William A.; and Baldwin, John J., to Merck & Co., Inc. Maleimido aryloxy alkanoic acids, alkyl esters and amides thereof. 3,465,001, 9-2-69, Cl. 260-326.3
Bolhofer, William A.; and Baldwin, John J., to Merck & Co., Inc. (Succinimidoaryloxy)alkanoic acids, esters and amides thereof. 3,465,002, 9-2-69, Cl. 260-326.3
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Bolick, Fred C., Jr., to Lanier Electronics Laboratory, Inc. Device to indicate the net motion of a tape in one of two directions of travel. 3,467,791, 9-16-69, Cl. 179-100.2
Bolick, Fred C., Jr., to Lanier Electronics Laboratory, Inc. Tape driving device. 3,471,072, 10-7-69, Cl. 226-187.
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Bolieau, Christopher W., to Thiokol Chemical Corporation. Igniter system for illuminating compositions. 3,479,954, 11-25-69, Cl. 102-37.8
Boling, Eldon A. Gas burner for atomic absorption spectroscopy. 3,434,668, 3-25-69, Cl. 239-552.
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Bolinger, Edgar Dare, to Deering Milliken Research Corporation. Textile sizing composition. 3,427,192, 2-11-69, Cl. 117-139.5
Bolinger, Edgar Dare; and Habib, Emile E. Water soluble polyurethane produced by reacting an aldehyde and the reaction product of an organic diisocyanate and an anhydrous polyalkylene ether glycol. 3,427,272, 2-11-69, Cl. 260-29.4
Bolinger, Edgar Dare; and Machell, Greville, to Deering Milliken Research Corporation. Keratin fibers modified with combination of hard polymer forming and soft polymer forming monomers to improve quality of knitted goods made therewith. 3,437,420, 4-8-69, Cl. 8-127.5
Bolinger, Edgar Dare; Machell, Greville; and Marco, Francis W., to Deering Milliken Research Corporation. Improving the crimpability of keratinous fibers by reacting same with a vinyl aromatic compound in combination with an acrylic ester. 3,457,027, 7-22-69, Cl. 8-127.5
Bolinger, Edgar Dare; and Morgan, Willard L., to Deering Milliken Research Corporation. Modification of keratin fibers with ethylenically unsaturated compounds in the presence of aqueous solutions of fiber swelling agents. 3,475,114, 10-28-69, Cl. 8-127.5
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Bollyky, Laszlo Joseph, to American Cyanamid Company. Generation of light by the reaction of tetra- cyanoethylene or other electronegatively substi- tuted ethylene, ethylene oxide and carbonyl compound with hydrogen peroxide in the presence of a fluorescer. 3,442,816, 5-6-69, Cl. 252-188.3
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Bolotin, Evgeny Moiseevich; Blyakher, Lev Abramovich; Ierusalimsky, Boris Nikolaevich; Saveliev, Leonid Ivanovich; Razmerov, Vladimir Ivanovich; and Khaidurov, Leonid Konstantinovich. Loading device. 3,467,438, 9-16-69, Cl. 299-33.
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Boltinghouse, Joseph C.; and Slater, John M., to North American Rockwell Corporation. Electrostatic gyrocompass. 3,443,320, 5-13-69, Cl. 33-226.
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Bombardieri, Caurino C., to Esso Production Research Company. Sampling method. 3,456,504, 7-22-69, Cl. 73-151.
Bomberger, Arthur L., to National Bearings Company. Bendable thrust bearing retainer. 3,436,135, 4-1-69, Cl. 308-201.
Bomberger, Howard B., Jr., to Crucible Steel Company of America. Method of adding oxygen to titanium and titanium alloys. 3,433,626, 3-18-69, Cl. 75-10.
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Bonadio, George A. Multielement antenna comprising selective switching means. 3,453,635, 7-1-69, Cl. 343-809.
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Bonallack, Richard F.; and Bills, Henry, to Bonallack & Sons Limited. Insulated bodies for commercial vehicles. 3,481,642, 12-2-69, Cl. 296-31.
Bonami, Ernest A., to Swift & Company. Method and apparatus for shirring flexible material onto cylindrical sections. 3,461,640, 8-19-69, Cl. 53-3.
Bonami, Ernest, to Swift & Company. Trimming tongues. 3,451,099, 6-24-69, Cl. 17-52.
Bonami, Ernest, to Swift & Company. Trimming tongues. 3,470,580, 10-7-69, Cl. 17-1.
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Bonanno, Joseph L.; and Crosman, Dorland L., to De Luxe Topper Corporation, mesne. Animated toy such as a doll. 3,425,153, 2-4-69, Cl. 46-119.
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Bond, George C.; Ham, George E.; and Hamilton, Dallas E., to Dow Chemical Company, The. Process for preparing carboxymethylated polyethylenimine and products produced by the same. 3,424,790, 1-28-69, Cl. 260-534.
Bond, Harry Laurence Fred, to Davy and United Engineering Company Limited. Fluidized bed apparatus for quenching hot rod. 3,445,100, 5-20-69, Cl. 266-3.
Bond, Herbert M., to Minnesota Mining and Manufacturing Company. Process for the production of a metal-polyimide composite and the resulting article. 3,486,934, 12-30-69, Cl. 117-218.
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Bond, Peter Anthony; and Howe, Ralph, to Imperial Chemical Industries Limited. Naphthalene derivatives. 3,463,808, 8-26-69, Cl. 260-479.
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Bondi, Enrico; and Larcher, Armando, to Montecatini Edison S.p.A. Process for the preparation of urea- formaldehyde concentrated solutions having a high content of methylenic linkages. 3,450,659, 6-17-69, Cl. 260-29.4
Bondley, Ralph J., to General Electric Company. Thermionic cathode. 3,434,812, 3-25-69, Cl. 29-182.5
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Bongartz, Hans; and Reinecke, Gunter, to Benz & Hilgers G.m.b.H. Apparatus for closing of folding-boxlike packages filled with soft packings. 3,452,515, 7-1-69, Cl. 53-376.
Bongenaar, Willem; Gieles, Joannes Paulus Maria; and Slob, Arie, to North American Philips Company, Inc. Low output impedance majority logic inverting circuit. 3,433,978, 3-18-69, Cl. 307-214.
Bongers, Leonard H.; and Kok, Bessel, to Martin-Marietta Corporation. Closed ecological system for the support of animal life and the method thereof. 3,420,739, 1-7-69, Cl. 195-1.
Bongiorno, Salvatore J., to Chemical Construction Corporation. Process and apparatus for reforming hydrocarbons. 3,446,747, 5-27-69, Cl. 252-373.
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Bonilla, Charles F., to Chlormetals Incorporated. Process and apparatus for separating metals by distillation. 3,484,233, 12-16-69, Cl. 75-63.
Bonilla, Charles F.; Brown, Steven H.; and Reiter, Sydney H., to National Lead Company. Shipping container for radioactive materials having corner shielding means. 3,483,381, 12-9-69, Cl. 250-108.
Bonin, Edward L., to Texas Instruments, Incorporated. Phototransistor having light sensitive diode connected across collector-base junction to increase turnoff time. 3,476,941, 11-4-69, Cl. 250-211.
Bonin, Emile L. Welt butting machine. 3,484,879, 12-23-69, Cl. 12-67.
Bonin, George E., to Corning Glass Works. Pressure chuck. 3,456,399, 7-22-69, Cl. 51-237.
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Bonino, Bruce S., to Uniroyal, Inc. Apparatus for simulating the pure rolling between pitch circles of two mating members. 3,451,278, 6-24-69, Cl. 74-57.
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Bonitz, Eckhard; and Rettig, August, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Organosilicon binders. 3,451,833, 6-24-69, Cl. 106-287.
Bonjour, Georges Auguste, to Societe Lumiere. Process for the manufacture of an electrophotographic material. 3,454,415, 7-8-69, Cl. 117-34.
Bonjour, Georges Auguste, to Societe Lumiere. Process for the manufacture of an electrophotographic material. 3,460,963, 8-12-69, Cl. 117-34.
Bonkowski, Edmund P.; and Drolet, Walter B. Lightning protector of boats with marine antenna. 3,483,305, 12-9-69, Cl. 174-2.
Bonn, Francis H. Air bags for pressing machines. 3,480,187, 11-25-69, Cl. 223-67.
Bonna, Louis; and Pun, Lucas, to Brevets Aero-Mecaniques S.A. Optical sighting devices for light antiaircraft guns. 3,453,055, 7-1-69, Cl. 356-255.
Bonnamy, Philippe Jean-Francois, to Combustion Engineering, Inc. Base leg connector. 3,452,953, 7-1-69, Cl. 248-188.
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Bonnaud, Michel, to Societe Industrielle et Commerciale des Automobiles Peugeot. Device for pivotably mounting an inclinable backrest of a seat and a seat including said device. 3,479,088, 11-18-69, Cl. 297-373.
Bonnel, Bernard; and Neel, Jean, to Progil. Compositions for the consolidation of soils. 3,437,625, 4-8-69, Cl. 260-29.4
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Bonnemay, Maurice M.; Bronoel, Guy G.; Levart, Eugene; and Doniat, Denis, to Centre National de la Recherche Scientifique. Electrochemical generators utilizing gaseous fuels and/or gaseous oxidizers. 3,484,292, 12-16-69, Cl. 136-86.
Bonner, Glenn H.; Doman, Robert C.; Iseli, Robert W.; and Papa, Pellegrino, to Corhart Refractories Company, Inc. Gaseous treatment of fused cast basic refractory to prevent hydration. 3,487,136, 12-30-69, Cl. 264-82.
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Bonner, William A.; Geusic, Joseph E.; and Van Uitert, Le Grand G., to Bell Telephone Laboratories, Incorporated. Devices utilizing crystals of $Pb_3 Mg_2 Nb_2 O_9$. 3,453,561, 7-1-69, Cl. 332-7.51
Bonneric, Francis, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Distributing device for tobacco and the like. 3,450,311, 6-17-69, Cl. 222-280.
Bonneric, Francis, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Device for controlling the displacement of a moving element. 3,459,057, 8-5-69, Cl. 74-89.15
Bonneric, Francis, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Device for delivering a precise quantity of divided tobacco or like material. 3,468,459, 9-23-69, Cl. 222-196.
Bonnet, Andre, to Societe Aria. Method and apparatus for pneumatically separating solid particles. 3,480,142, 11-25-69, Cl. 209-133.
Bonnet, Fritz; and Fromm, Robert Gustav, to Joachim Fromm Leopold Mayer-Bass GmbH. Perserving hops by drying and maintaining in an inert atmosphere. 3,442,657, 5-6-69, Cl. 99-50.5
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Bonnet, Robert E., to Engelhard Minerals & Chemicals Corporation. Hydrogen diffusion apparatus. 3,486,301, 12-30-69, Cl. 55-158.
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Bonnet, Yannik, to Rhone-Poulenc S.A. Cyclene-carboxylates and preparation thereof. 3,468,929, 9-23-69, Cl. 260-464.
Bonnin, Andre; and Poirier, Philippe, to Societe Saint-Gobain Techniques Nouvelles. Preparation of barium 137 in an organic medium. 3,450,640, 6-17-69, Cl. 252-301.1
Bonnin, Andre; and Poirier, Philippe, to Societe Saint-Gobain Techniques Nouvelles. Method of cesium 137 removal. 3,453,214, 7-1-69, Cl. 252-301.1
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Bonnivard, Georges, to Institut de Recherches de la Siderurgie Francaise, and Bureau de Recherches Geologiques et Minieres. Method of separately obtaining sodium carbonate and sodium chromate from solutions obtained by leaching roasted laterites and the like. 3,458,278, 7-29-69, Cl. 23-56.
Bono, Luigi, to Necchi Societa per Azioni. Removable stitch pattern template means for sewing machines. 3,440,980, 4-29-69, Cl. 112-2.
Bono, Luigi, to Necchi Societa per Azioni. Thread-winding device for sewing machines. 3,460,772, 8-12-69, Cl. 242-20.
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Bonsch, Gustav; and Nolz, Klaus, to Voith Getriebe KG. Emptying device for fluid flow circuits. 3,478,516, 11-18-69, Cl. 60-54.

Bonse, Ulrich Karl; and Hart, Michael, to Research Corporation. X-ray interferometer using three spaced parallel crystals. 3,446,961, 5-27-69, Cl. 250-51.5

Bonsel, Wouter G.; and Weevers, Henry H., to Reactor Centrum Nederland. Nuclear energy reactor plant having one or more heat exchangers. 3,425,907, 2-4-69, Cl. 176-65.

Bontempelli, Jean Claude; and Garet, Pierre, to Rhone-Poulenc S.A. Preparation of alkali metal borohydrides. 3,471,268, 10-7-69, Cl. 23-361.

Bonuchi, James A.; and Evans, Donald L., to Johnson, Gordon, Company. Apparatus for and method of stretching, sealing and removing the tab from packages. 3,471,990, 10-14-69, Cl. 53-22.

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Bonzagni, Francis A., to Monsanto Company. Paper sizing with a diamine amide derivative. 3,427,219, 2-11-69, Cl. 162-168.

Bonzagni, Francis A., to Monsanto Company. Paper treated with alkenyl fatty acid ester/alpha- beta-olefinically unsaturated polycarboxylic acid interpolymer. 3,428,485, 2-18-69, Cl. 117-155.

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Boodman, Norman S.; Perkins, George W.; and Walter, Jack W., to United States Steel Corporation. Jet fuels from hydrogenated coal tar derivatives and pinane-containing materials. 3,441,497, 4-29-69, Cl. 208-15.

Booe, James M., to Mallory, P. R., & Co., Inc. Hermetically encapsulated electronic device. 3,439,231, 4-15-69, Cl. 317-230.

Booe, James M., to Mallory, P. R., & Co., Inc. Stabilization of solid electrolyte capacitors by means of atmospheric control. 3,466,508, 9-9-69, Cl. 317-230.

Booe, James M.; and Hood, Joseph T., to Mallory, P. R., & Co., Inc. Electrical capacitor for use in adverse environments and method of making the same. 3,465,402, 9-9-69, Cl. 29-25.42

Booher, Robert K., to North American Rockwell Corporation. Carry or borrow system for arithmetic computations. 3,465,133, 9-2-69, Cl. 235-175.

Booher, Robert K., to North American Rockwell Corporation. Signal responsive device. 3,484,625, 12-16-69, Cl. 307-289.

Booher, Russell L., to Shell Oil Company. Lubricating oils containing an antioxidant mixture of zinc and antimony di-alkyl dithiocarbamates. 3,462,367, 8-19-69, Cl. 252-33.2

Booij, Jan G.; and Algra, Halbe, to Aviolanda Maatschappij voor Vliegtuigbouw N.V. Device for aligning eggs. 3,463,292, 8-26-69, Cl. 198-33.

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Booker, James L.; and Fredrickson, Robert E., to Dow Chemical Company, The. Recovery of oxides of molybdenum from the oxychloride. 3,420,619, 1-7-69, Cl. 23-21.

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Bookout, Charles C., to Ford Motor Company. Transverse automotive vehicle driveline with a four-speed ratio automatic transmission and simulated overdrive. 3,446,095, 5-27-69, Cl. 74-763.

Bookout, Charles C., to Ford Motor Company. Multiple ratio automatic transmission and axle assembly. 3,473,412, 10-21-69, Cl. 74-695.

Bookout, Charles C.; and Kaptur, Robert E., to Ford Motor Company. Control system for semi-automatic power transmission mechanism. 3,424,284, 1-28-69, Cl. 192-3.33

Bookout, Charles C.; and Moan, Richard D., to Ford Motor Company. Combined hydraulic system for a vehicle transmission mechanism and power steering gear. 3,470,693, 10-7-69, Cl. 60-52.

Bookout, Floyd V., to Rock-Ola Manufacturing Corporation. Can vending mechanism. 3,437,239, 4-8-69, Cl. 221-241.

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Boon, William. Method for treating materials. 3,469,931, 9-30-69, Cl. 8-137.

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Boone, Christopher B. Fluroescent lamp ballast with integral fuseholder and replaceable fuse. 3,441,889, 4-29-69, Cl. 337-1.

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Boop, John L.; and Hodgson, Robert F., to Commercial Shearing & Stamping Company. Shaft seals. 3,421,769, 1-14-69, Cl. 277-58.

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Boss, Marc. Freestanding display stand. 3,484,810, 12-16-69, Cl. 108-152.
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Bosselaar, Hendrik; and van Riemsdijk, Arnoldus J., to Shell Oil Company. Acoustic apparatus for examining a pipeline for leaks. 3,462,240, 8-19-69, Cl. 73-40.5
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Bosso, Joseph F.; and Gerek, Gene, to PPG Industries, Inc. Reusable lined beverage containers. 3,450,303, 6-17-69, Cl. 220-64.
Bost, Howard W. Halogen oxides, halogen oxy acids, and salts thereof as sulfoxidation promoters. 3,485,870, 12-23-69, Cl. 260-513.
Bost, Howard W.; and Cook, Charles F., to Phillips Petroleum Company. Nitrogen oxide compounds as sulfoxidation promoters. 3,479,398, 11-18-69, Cl. 260-513.
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Bostian, Logan C.; Cawthon, Thomas M.; and Oxenrider, Bryce C., to Allied Chemical Corporation. Polycarbonates of 1,4-bis(ρ-hydroxycumyl) benzene. 3,466,260, 9-9-69, Cl. 260-47.
Bostian, Logan C.; Farrar, Grover L.; and Ulmer, Harry E., to Allied Chemical Corporation. Production of hexamethylenediamine. 3,456,014, 7-15-69, Cl. 260-585.
Bostick, Edgar E., to General Electric Company. Polymerization of cyclic organosiloxanes with group 11-A metal complexes. 3,479,320, 11-18-69, Cl. 260-46.5
Bostick, Edgar E., to General Electric Company. Sterospecific organosiloxane-marcromolecular hydrocarbon block copolymers. 3,483,270, 12-9-69, Cl. 260-827.
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Bostock, James H., to Otis Engineering Corporation. Well installation with plural flow meters. 3,454,085, 7-8-69, Cl. 166-66.
Bostock, James H.; and Pierce, Phillip E., to Otis Engineering Corporation. Well tools. 3,427,989, 2-18-69, Cl. 103-232.
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Bostonian, Edward T. Fluorescent lighting fixture with wireways on the reflector. 3,436,537, 4-1-69, Cl. 240-9.
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Boswell, George A., to Du Pont de Nemours, E. I., and Company. 1-Adamantyl and 1-adamantylmethyl carbonates of testoterone and selected derivatives. 3,433,813, 3-18-69, Cl. 260-397.4
Boswell, George A., to Du Pont de Nemours, E. I., and Company. Selected 17,17-difluoro unsaturated androstanes. 3,470,216, 9-30-69, Cl. 260-397.3
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Botsford, Charles W.: *See—*
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Bott, George S., to American Cyanamid Company. Compact ampule sealer. 3,437,471, 4-8-69, Cl. 65-270.
Taylor, Arthur Sinclair; Sandhage, Ellsworth; Bott, George; and Konazewski, William,3,453,804.
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Bott, John A. Luggage rack. 3,451,602, 6-24-69, Cl. 224-42.1
Bott, Lawrence L., to Nalco Chemical Company. Electrochemical cell having ceramic- lined tubular cathodes. 3,479,274, 11-18-69, Cl. 204-260.
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Bottani, Angelo, to Societa Internazionale Fonovisione S.p.A. Portable apparatus for continuous cinematographic projection of a film contained in an interchangeable charger. 3,447,865, 6-3-69, Cl. 352-27.
Bottas, Michael J., to Whirlpool Corporation. Reactor for generating a carbon dioxide rich atmosphere. 3,421,860, 1-14-69, Cl. 23-281.
Bottazi, Henry; Claudel, Bernard; Trambouze, Yves; de Calmes, Alain; Fould, Henry; and Ledoray, Pierre Yves, to Commissariat a l'Energie Atomique. Methods of making combustion catalysts. 3,444,098, 5-13-69, Cl. 252-455.
Bottazzi, Giovanni. Adjustable feed device for embossing tools. 3,481,211, 12-2-69, Cl. 74-142.
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Botterill, John Redvers, to Teves, Alfred, Maschinen- und Armaturenfabrik K.G. Actuating fluid cooling means for a disk brake. 3,420,342, 1-7-69, Cl. 188-264.
Botterill, John Redvers, to Teves, Alfred, G.m.b.H. Anti-noise disk brake. 3,460,652, 8-12-69, Cl. 188-73.
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Bottger, Friedrich; and Cuppers, Paul, to Maschinenfabrik Froriep G.m.b.H. Tool slides for lathes. 3,448,656, 6-10-69, Cl. 90-17.
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Bottling, Manfred, to Kienzle Apparate G.m.b.H. Discharge nozzle controlled fluid dispensing arrangement. 3,447,719, 6-3-69, Cl. 222-33.
Bottling, Manfred, to Kienzle Apparate G.m.b.H. Receipt printer for vending machines. 3,469,668, 9-30-69, Cl. 194-3.
Botto, Giuseppe. Apparatus for drilling wells. 3,420,321, 1-7-69, Cl. 175-173.
Bottomley, Charles G., to Du Pont de Nemours, E. I., and Company. $\alpha,\alpha,\alpha\alpha'$-Tetramethyl-p-xylylenediamines. 3,422,143, 1-14-69, Cl. 260-570.8
Bottomley, James; and Strauss, Richard, to National Polychemicals, Inc. Phenolic sulfide phosphite compounds. 3,435,097, 3-25-69, Cl. 260-887.
Bottoms, Harry Simister, to Lucas, Joseph, (Industries) Limited. Gear pumps. 3,431,862, 3-11-69, Cl. 103-126.
Bottoms, Harry Simister, to Lucas, Joseph, (Industries) Limited. Variable flow metering device. 3,447,778, 6-3-69, Cl. 251-282.
Bottoms, Harry Simister, to Lucas, Joseph, (Industries) Limited. Port plates for hydraulic reciprocating pumps and motors. 3,460,483, 8-12-69, Cl. 103-162.
Bottoms, Harry Simister; and Lewis, Geoffrey Arthur, to Lucas, Joseph, (Industries) Limited. Fluid pumps. 3,447,470, 6-3-69, Cl. 103-97.
Botton, Roger; and Steinmetz, Andre, to Produits Chimiques Pechiney-Saint-Gobain. Iron-based catalyst, their preparation and their uses. 3,446,589, 5-27-69, Cl. 23-193.
Botton, Roger; and Steinmetz, Andre, to Produits Chimiques Pechiney-Saint-Gobain. Preparation of ammonia and hydrochloric acid from ammonium chloride. 3,471,256, 10-7-69, Cl. 23-154.
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Bottos, Bela. Hand telephone. 3,474,196, 10-21-69, Cl. 179-103.
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Boubee, Pierre. Device for cyclically activating a heating appliance controlled by a thermostat. 3,439,990, 4-22-69, Cl. 431-69.
Boucek, Miroslav; Pospisil, Frantisek; Elias, Jiri; Tyl, Miloslav; and Mikulecky, Karel, to Vyzkumny Ustav Bavlnarsky. Stop motion for open end spinning machines. 3,462,936, 8-26-69, Cl. 57-80.
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Bouchard, Joseph G. F., to Sprague Electric Company. Transistors and method of manufacturing the same. 3,426,254, 2-4-69, Cl. 317-235.
Bouchard, Richard J., to Sanders Associates, Inc. Intensity control for vector generators having uniform vector trace time. 3,482,309, 12-9-69, Cl. 315-22.
Bouchard, Richard; Billings, Philip; and Horn, Richard A., to Sanders Associates, Inc. Character generator. 3,423,626, 1-21-69, Cl. 315-18.
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Bouche, Raymond R. Vibration damper. 3,446,907, 5-27-69, Cl. 174-42.
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Boucherie, Gerard Benoni. Method and installation for the automatic feeding of fibres into machines for processing fibre material. 3,450,312, 6-17-69, Cl. 222-363.
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Boucraut, Michael; Toth, Imre; and Blum, Jacques, to Institut de Recherches de la Siderurgie Francaise. Pneumatic conveyor. 3,463,553, 8-26-69, Cl. 302-17.
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Boudes, Jacques. Helicopter having in horizontal flight the characteristics of an airplane. 3,420,472, 1-7-69, Cl. 244-7.
Boudigues, Serge, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Multiflow turbojet engine. 3,486,328, 12-30-69, Cl. 60-39.18
Boudin, Georges M.; and Rabus, Annie, to Eastman Kodak Company. X-ray film pack with a flexible envelope and means to evacuate said envelope. 3,444,370, 5-13-69, Cl. 250-68.
Boudin, Henry F. Vehicle emergency signal light. 3,439,326, 4-15-69, Cl. 340-87.
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Boudreau, Francis. Trap-chain lock ring. 3,461,600, 8-19-69, Cl. 43-96.
Boudreau, Frank; Huston, Paul O.; and Rasmusson, Donald R., to Kidde, Walter, & Company, Inc., mesne. Yarn supply creel frame. 3,428,188, 2-18-69, Cl. 211-175.
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Boudreau, Robert J., to General Electric Company. Siloxane-oxyalkylene copolymers and use thereof. 3,483,240, 12-9-69, Cl. 260-448.2
Boudreau, Robert Joseph. Portable saw guide. 3,485,275, 12-23-69, Cl. 143-6.
Boudreaux, Gordon J.: *See—*
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Boudreaux, Joseph R., to Dow Chemical Company, The. Hydraulic fracturing. 3,475,334, 10-28-69, Cl. 252-8.55
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Zappia, Anthony T.; and Bough, Maynard O., Jr.,3,434,820.
Boughner, Lawrence G., to Rockwell-Standard Company, mesne. Steering knuckle sealing means. 3,441,288, 4-29-69, Cl. 280-96.1
Boughton, Donald C., to Du Pont de Nemours, E. I., and Company. Methods of controlling protozoa infections with N-substituted, 1,4-diamino-2,3-anthraquinonedicarboximides. 3,436,460, 4-1-69, Cl. 424-274.
Bougon, Michel, to Commissariat a l'Energie Atomique. Apparatus for observing and photographing objects in closed spaces. 3,447,434, 6-3-69, Cl. 95-11.
Bougon, Michel; Hugues, Edgard; and Poivilliers, Jean, to Commissariat a l'Energie Atomique. Observation or photography devices in closed spaces and in particular in bubble chambers. 3,485,547, 12-23-69, Cl. 350-17.
Bouillard, Paul: *See—*
Sautier, Pierre; and Bouillard, Paul,3,438,304.
Bouillon, Bernard: *See—*
D'Albis, Antoine; Yerouchalmi, David; and Bouillon, Bernard,3,423,611.
Bouis, Hugues: *See—*
Chatelain, Roger; and Bouis, Hugues,3,474,944.
Boukair, Moe N. Liquid-containing filter. 3,420,242, 1-7-69, Cl. 131-261.
Bouladon, Gabriel; and Zuppiger, Paul, to Battelle Development Corporation, The. Closed loop passenger transport complex. 3,431,866, 3-11-69, Cl. 104-25.
Boulanger, Claude; and Pellissier-Tanon, Jerome, to Pechiney-Compagnie de Produits Chimiques et Electrometallurgiques. Apparatus and method for the operation of cells for the igneous electrolysis of alumina. 3,455,795, 7-15-69, Cl. 204-67.
Boulanger, Evariste. Belt for snowmobiles. 3,436,128, 4-1-69, Cl. 305-38.
Bould, Fred, to Westinghouse Electric Corporation. Metal-enclosed switchgear with improved interlock means. 3,474,201, 10-21-69, Cl. 200-50.
Bould, Fred; and Patel, Nagar J., to Westinghouse Electric Corporation. Track structure for drawout switchgear apparatus. 3,483,338, 12-9-69, Cl. 200-50.
Boulet, Francis; and Polledri, Jean, to Compagnie Generale d'Electricite. Tunnel diode manufacturing apparatus. 3,461,546, 8-19-69, Cl. 29-569.

Bouley, Jean. Bulldozer. 3,424,251, 1-28-69, Cl. 172-801.
Bouligny, R. H., Inc.: *See—*
Wolf, Herman B., 3,457,459.
Boulter, Brian Alfred; and Dwyer, Barry, to Elliott Brothers (London) Limited. Read-only digital data storage arrangement. 3,469,247, 9-23-69, Cl. 340-174.
Boultinghouse, Harold D., to Phillips Petroleum Company. Tufted articles and method for making same. 3,431,875, 3-11-69, Cl. 112-410.
Boultinghouse, Harold D., to Phillips Petroleum Company. Fibrillation. 3,473,206, 10-21-69, Cl. 28-72.
Boulton, Richard C.: *See—*
Harrison, William B.; and Boulton, Richard C.,3,454,282.
Bouma, Harold, to Bouma Post Yards. Post pointing and capping apparatus. 3,451,449, 6-24-69, Cl. 144-30.
Bouma Post Yards: *See—*
Bouma, Harold, 3,451,449.
Bouman, Antonius Fredericus Mattias, to N.V. Hollandse Signaalapparaten. Pulse radar apparatuses. 3,460,141, 8-5-69, Cl. 343-17.2
Bouncher, Leo E.: *See—*
Vroman, Albert L.; and Bouncher, Leo E.,3,429,473.
Bounden, John Ellery; and Large, Leslie Noel, to United Kingdom Atomic Energy Authority. Neutron generators. 3,448,314, 6-3-69, Cl. 313-61.
Bounds, William E.; and Morris, Elmer S. Device for frosting cocktail glasses. 3,431,749, 3-11-69, Cl. 62-293.
Bouniot, Albert, to Melle-Bezons (Societe Anonyme). Method of separating methanol from low boiling aliphatic esters and water by azeotropic distillation with a hydrocarbon. 3,431,181, 3-4-69, Cl. 203-8.
Bounous, Daniel B., to Southern Textile Machinery Company, Incorporated, mesne. Apparatus for inspecting and sewing stockings. 3,446,166, 5-27-69, Cl. 112-2.
Bounsall, Norman F., to Ampex Corporation. Erasing method for video tape recordings. 3,436,489, 4-1-69, Cl. 179-100.2
Bourbon, Jean, to Etablissements A. Bourbon & Fils. Operating device for writing appliances with retractable writing elements. 3,427,113, 2-11-69, Cl. 401-112.
Bourdais, Jacques, to Centre National de la Recherche Scientifique. 2,3,4,5-Tetrahydro-1,5, benzothiazepine-4-one-3- yl-acetic acid and its methyl ester. 3,445,460, 5-20-69, Cl. 260-239.3
Bourdeau, Raymond D.: *See—*
Lohnas, John D.; Bourdeau, Raymond D.; and Kalia, Kanwal K.,3,442,685.
Bourdin, Jean Sylvain; and Mayet, Pierre Ernest, to Societe Anonyme: Entreprise Bourdin & Chausse. Method and apparatus for determing the compactness of the surface over which a vehicle travels. 3,444,727, 5-20-69, Cl. 73-78.
Bourdon, Joseph J.: *See—*
Peters, Richard T.; Stone, Eliot; and Bourdon, Joseph J.,3,466,156.
Bourgault, Albert J.; and Harward, Robert A., to Collins & Aikman Corporation. Machine shut-down device. 3,487,181, 12-30-69, Cl. 200-61.13
Bourgault, Jean Paul: *See—*
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Bourgeaux, Maurice: *See—*
DeLajarte, Stephane Dufaure; and Bourgeaux, Maurice,3,468,649.
Bourgeaux, Maurice; and Peyches, Pierre Ivan, to Compagnie de Saint-Gobain. Process and apparatus for supporting a sheet of glass on a gas and liquid support bed. 3,437,469, 4-8-69, Cl. 65-25.
Bourgeois, Francis H.: *See—*
Westby, Lloyd R.; and Bourgeois, Francis H.,3,476,204.
Bourgeois, Joseph F. J.: *See—*
Allgeyer, David F.; and Bourgeois, Joseph F. J.,3,440,767.
Bourgeois, Louis F. Bag dispenser from continuous tube supply. 3,481,112, 12-2-69, Cl. 53-390.
Bourgeois, Norbert Paul, to Etablissements Georges Lebocey & Cie. Arrangement for the detection of breakage and abnormal yarn tension. 3,482,420, 12-9-69, Cl. 66-158.
Bourgeois, Ronald. Workpiece positioning device. 3,483,631, 12-16-69, Cl. 33-180.
Bourgeois, Yves; Lehman, Jean-Yves; Lefrancois, Bernard; Briec, Michel; and Rostaing, Michel, to Houilleres du Bassin du Nord & du Pas-de-Calais, Comissariat a l'Energie Atomique, L'Air Liquide, Societe pour l'etude et l'Exploitation des Procedes Georges Claude, and Compagnie de Construction Mecanique Procedes Sulzer. Process for carrying out isotopic exchange between ammonia and deuterated ammonia, hydrogen and deuterium. 3,471,257, 10-7-69, Cl. 23-193.
Bourget, Maurice Louis; Gesnel, Andre Paul; and Orard, Joseph Antoine Louis. Transplanting plants. 3,469,341, 9-30-69, Cl. 47-37.
Bourggraff, Robert; and Hainke, Georg, to Compagnie de Saint-Gobain. Apparatus for manufacture of flat wire glass. 3,457,058, 7-22-69, Cl. 65-148.
Bourghardt, Sven Erik, to Saab Aktiebolag. Devices for assembling in an instruction memory an instruction word to be supplied to an apparatus controlled by logic-circuits. 3,478,326, 11-11-69, Cl. 340-172.5
Bourguignon, Pierre; and Lemaistre, Rene, to Les Usines de Melle (Societe Anonyme). Novel furfuryl alcohol processes and products. 3,451,984, 6-24-69, Cl. 260-88.5
Bourn, Jesse T., deceased (by Bourn, Helen Louise, executrix); Ridenhour, Banks L.; and Lum, Robert C. Guard rail stanchion. 3,480,257, 11-25-69, Cl. 256-59.
Bourne, Douglas J.: *See—*
Atwood, George E.; Bourne, Douglas J.; and Lamb, Frank E.,3,436,175.
Bourne, John Edward; and Simpson, John Albert, to Sperry Rand Limited, mesne. Redundant servo control system with crossfeeding of feedback for use in an autopilot. 3,454,852, 7-8-69, Cl. 318-18.
Bourne, Ronald Frederick; and Cheyne, Donald Gordon. Mounting of beater and like blades on rotors. 3,432,110, 3-11-69, Cl. 241-191.
Bourne, Walter. Cable and like binding clips. 3,486,201, 12-30-69, Cl. 24-16.
Bourns, Inc.: *See—*
Ames, John E., Jr., 3,421,126.
Ames, John E., Jr., 3,463,999.
Baskett, John R., 3,448,427.
Halfhill, Donald W.; and Comley, William, Jr., 3,441,728.
Hatch, Howard H., 3,470,519.
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Lugten, Leo K., 3,483,499.
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Bourquin, Jean-Pierre: *See—*
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Renz, Jany; Bourquin, Jean-Pierre; Winkler, Hans; Gagnaux, Pierre; Guldimann, Simon; Ruesch, Leo; and Schwarb, Gustav,3,478,022.
Bourquin, Paul A., to Wolff & Munier, Inc. Top discharge air duct system and air ducts therefor. 3,478,667, 11-18-69, Cl. 98-40.
Boushka, William M., to General Mills, Inc. Apparatus for preparing food products. 3,459,408, 8-5-69, Cl. 259-8.
Boussois-Soushon-Neuvesel: *See—*
Olink, Jan-Theodor, 3,463,625.
Bouthors, Pierre; and Colinet, Andre, to Regie Nationale des Usines Renault, and Societe Industrielle et Commerciale des Automobiles Peugeot. Air distributor boxes for air-conditioning systems of vehicles. 3,448,674, 6-10-69, Cl. 98-2.
Bouthors, Pierre; and Colinet, Andre, to Regie Nationale Des Usines Renault. Tubular finned radiator. 3,470,949, 10-7-69, Cl. 165-151.
Bouthors, Pierre; Lecomte, Alexandre; and Soetaert, Guy, to Regie Nationale des Usines Renault, and Societe Industrielle et Commerciale des Automobiles Peugeot. Window regulator handles. 3,483,769, 12-16-69, Cl. 74-547.
Bouthors, Pierre; and Porquet, Christian, to Regie Nationale des Usines Renault. Automotive electric door lock systems. 3,486,352, 12-30-69, Cl. 70-264.
Bouthors, Pierre: *See—*
Prost-Dame, Claude; Ventre, Pierre; and Bouthors, Pierre,3,449,864.
Boutilier, James A., to Foxboro Company, The. Electrical connector for test gear. 3,466,595, 9-9-69, Cl. 339-253.
Boutin, Lucien J.: *See—*
Borden, Jay R.; Boutin, Lucien J.; Geis, Everett R.; and Krauthamer, Stanley,3,452,266.
Boutle, David Leonard: *See—*
Chadwick, Francis Neville; Broad, David; and Boutle, David Leonard,3,475,762.
Bouton, Gertrude V.,: *See—*
Vischer, Alfred, Jr., 3,431,902.
Boutron, Roger, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Process and device for measuring the compactness of compressible bodies and especially of cigarettes. 3,438,250, 4-15-69, Cl. 73-94.
Boutry, Georges Albert: *See—*
Guillaume, Andre Eugene,3,450,921.
Bouvier, Francis L.; Carlson, Roy C., Jr.; Higgins, Charles W.; Smith Norman F.; and Kelley, John J., to Western Electric Company, Incorporated. Apparatus for abrading-to-value electrical components. 3,438,155, 4-15-69, Cl. 51-165.
Bouvier, John J., to Ferro Corporation. Polishing plate. 3,464,166, 9-2-69, Cl. 51-209.
Bouwer, Leonardus: *See—*
Verkaik, Arie; and Bouwer, Leonardus,3,483,723.
Bouwkamp, Gerald R., to Standard Screw Company. Spiral metering valve. 3,439,659, 4-22-69, Cl. 123-90.
Bouwkamp, Gerald R.; and Lesher, Kenneth W., to Standard Screw Company. Flow metering device. 3,437,082, 4-8-69, Cl. 123-119.
Bouwma, Ronald D., to Keeler Brass Company. Furniture hardward. 3,480,990, 12-2-69, Cl. 16-123.
Bouyoucos, John V., to General Dynamics Corporation. Acoustic vibration generators. 3,472,199, 10-14-69, Cl. 116-137.

Bouyoucos, John V. Acoustic apparatus. 3,485,205, 12-23-69, Cl. 116-137.
Bouzereau, Daniel Emile Henri, to Centre de Recherches de Pont-a-Mousson. Machine for stoppering bottles. 3,432,989, 3-18-69, Cl. 53-264.
Bouzereau, Daniel Emile Henri, to Centre de Recherches de Pont-a-Mousson. Selector for capsules and other hollow objects having an end wall. 3,463,294, 8-26-69, Cl. 198-33.
Bova, Joseph Don; and Engel, Harry Charles, to American Cyanamid Company. Expandable honeycomb structure. 3,458,385, 7-29-69, Cl. 161-68.
Bovagne, Rene. Rotatable apparatus, more particularly a rotatable kiln, for the treatment of materials. 3,468,522, 9-23-69, Cl. 263-33.
Bovard, Robert M., 'Automatic' Sprinkler Corporation of America. Solid state oxygen supply system. 3,482,568, 12-9-69, Cl. 128-142.3
Bovee, Loren L.: *See—*
Ainsworth, David J.; and Bovee, Loren L.,3,446,477.
Bovenkerk, Harold P., to General Electric Company. Process for growing diamond on a diamond seed crystal. 3,423,177, 1-21-69, Cl. 23-209.1
Bovensiepen, Hans-Friedrich. Shaft and bearing arrangement for a carding machine. 3,464,092, 9-2-69, Cl. 19-98.
Bovone, Luigi. Machine for having glass plates electrochemically copper plated by means of soluble electrodes, in the making of mirrors. 3,468,782, 9-23-69, Cl. 204-198.
Bowcott, Roy Price, to Lucas, Joseph, (Industries) Limited. Commutator segments for dynamo-electric machines and coil end connectors. 3,459,983, 8-5-69, Cl. 310-234.
Bowcott, Roy Price, to Lucas, Joseph, (Industries) Limited. Combined seal and washer for a roller clutch. 3,460,655, 8-12-69, Cl. 192-45.
Bowden, George F. Concrete wall form with load gathering and distributing members therefor. 3,452,960, 7-1-69, Cl. 249-40.
Bowden, George F.; and Dagiel, Richard T., to Symons Mfg. Company. Stringer-releasing shore assembly for a concrete slab form installation. 3,430,910, 3-4-69, Cl. 248-354.
Bowden, George F.; and Dagiel, Richard T., to Symons Mfg., Company. Concrete wall form installation and tie rod load indicator therefor. 3,467,054, 9-16-69, Cl. 116-114.
Bowden, George F.; and Gilbert, John R., to Symons Mfg. Company. Tie rod assembly adapted for use in a concrete wall form and including novel elastomeric spacer members. 3,420,491, 1-7-69, Cl. 249-216.
Bowden, George F.; and Gilbert, John R., to Symons Mfg., Company. Concrete wall form panel with partial studding. 3,446,470, 5-27-69, Cl. 249-192.
Bowden, George F.; and Gilbert, John R., to Symons Mfg. Company. Hole-pattern member for use in connection with a concrete floor slab form. 3,469,817, 9-30-69, Cl. 249-183.
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Bowden, James J. Method of preheating and charging scrap to a BOF. 3,479,178, 11-18-69, Cl. 75-60.
Bowden, John H.; and Terry, Clifford T., to Wyandotte Chemicals Corporation. Process for the preparation of granular calcium chloride. 3,433,863, 3-18-69, Cl. 264-140.
Bowden, Kenneth: *See—*
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Bowditch, Hoel L., to Foxboro Company, The. Linkage arrangement for instrumentation apparatus. 3,430,511, 3-4-69, Cl. 74-469.
Bowditch, Hoel L., to Foxboro Company, The. Apparatus for use in the measurement of fluid flow. 3,431,935, 3-11-69, Cl. 137-269.
Bowditch, Hoel L.; and Johnsen, Christian Frederick, to Foxboro Company, The. Single unit recorder inking system. 3,482,257, 12-2-69, Cl. 346-140.
Bowe Bohler & Weber K.G.: *See—*
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Fuhring, Heinrich; and Fleschhut, Richard, 3,466,688.
Bowe Bohler & Weber KG, Maschinenfabrik: *See—*
Fuhring, Heinrich; and Fleschhut, Richard, 3,484,884.
Bowell, Stephen T.: *See—*
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Bowen, Casey E. Drafting and navigational instruments. 3,456,352, 7-22-69, Cl. 33-76.
Bowen, Charles W., Jr.; and Stapper, William R., to Bell Aerospace Corporation. Automatic control for hydraulic systems. 3,474,819, 10-28-69, Cl. 137-334.
Bowen, Donald R.; and Fischer, Raymond G., to General Motors Corporation. Fastener tester. 3,429,179, 2-25-69, Cl. 73-133.
Bowen, Eldred W., to Pet Incorporated. Heat sealer. 3,425,887, 2-4-69, Cl. 156-518.
Bowen, F. D.: *See—*
Perkins, Bernard C., 3,421,494.
Bowen, G. L., & Co.: *See—*
Bowen, Glen L.; Fishman, Milton; McVay, John H.; and Francis, Albert W., 3,439,959.
Bowen, Gilbert: *See—*
Perkins, Bernard C., 3,421,494.
Bowen, Glen L.; Fishman, Milton; McVay, John H.; and Francis, Albert W., to Bowen, G. L., & Co. Endless steel track construction. 3,439,959, 4-22-69, Cl. 305-37.
Bowen, Griffith, to Du Pont de Nemours, E. I., and Company. Glass laminate and interlayer. 3,437,552, 4-8-69, Cl. 161-165.
Bowen, Howard: *See—*
Bessonny, Al I.; and Bowen, Howard,3,432,672.
Bowen, James R.: *See—*
Flint, Graham W.; and Bowen, James R.,3,469,144.
Heller, Ralph M.; and Bowen, James R.,3,479,643.
Bowen, John D., Jr., to Martin-Marietta Corporation. Unusual structural material. 3,449,202, 6-10-69, Cl. 161-170.
Bowen, John T.: *See—*
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Bowen, John T., to Ingersoll-Rand Company. Liquid spring. 3,431,985, 3-11-69, Cl. 173-119.
Bowen, Kermit A. Automatic perspective drafting machine. 3,425,126, 2-4-69, Cl. 33-18.
Bowen Tools, Inc.: *See—*
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Pilcher, David W., 3,475,991.
Slator, Damon T.; and Burns, Albert L., Jr., 3,481,610.
Bowen, Willard L., III, to Torrington Company, The. Ball bushing rod end and method of making same. 3,438,661, 4-15-69, Cl. 287-88.
Bower, Allen M., to Fluid Controls, Inc. Valve for converting single input flow into a plurality of pressure compensated regulated output flows. 3,435,838, 4-1-69, Cl. 137-101.
Bower, Arnold B., Jr., to General Electric Company. Self-centering cutter bit for drills. 3,434,552, 3-25-69, Cl. 175-410.
Bower, Arnold B., Jr., to General Electric Company. Cutter bit for drills. 3,434,554, 3-25-69, Cl. 175-410.
Bower, Arnold B., Jr., to General Electric Company. Cutter bit. 3,476,438, 11-4-69, Cl. 299-86.
Bower, Harman J. Warning apparatus for an internal combustion engine. 3,485,203, 12-23-69, Cl. 116-70.
Bower, Lewis Robert, to Wild, A. G., & Co. Limited. Hydraulic roof supports. 3,431,737, 3-11-69, Cl. 61-45.
Bower, Richard Raymond, to International Telephone and Telegraph Corporation. Box erecting apparatus. 3,457,843, 7-29-69, Cl. 93-53.
Bower, Richard R., to International Telephone and Telegraph Corporation. Assembly conveyor system. 3,476,231, 11-4-69, Cl. 198-19.
Bower, Robert W.: *See—*
Mayer, James W.; Bower, Robert W.; and Shifrin, Gordon A.,3,483,443.
Bower, Robert W., to Hughes Aircraft Company. Field-effect device with insulated gate. 3,472,712, 10-14-69, Cl. 148-187.
Bower, Robert W.; and Stewart, Richard F., to Hughes Aircraft Company. Multirank multistage shift register. 3,421,092, 1-7-69, Cl. 328-37.
Bower, Warren H.: *See—*
Martin, John L.; MacKey, Robert J.; and Bower, Warren H.,3,431,011.
Bowerman, Martin, to Martin Engineering Company. Saw blade grinder. 3,457,809, 7-29-69, Cl. 76-40.
Bowers, Albert: *See—*
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Ringold, Howard J.; Bowers, Albert; Rosenkranz, George; and Mancera, Octavio,3,438,978.
Bowers, Albert, to Syntex Corporation. 1-Cyano-androstanes. 3,423,436, 1-21-69, Cl. 260-397.45
Bowers, Albert, to Syntex Corporation. 19-Oxo-and 19-lower alkyl-19-oxoandrostane derivatives. 3,449,381, 6-10-69, Cl. 260-397.4
Bowers, Albert; Edwards, John; and Orr, James C., to Syntex Corporation, mesne. 3 Methylene-androstan-17β ols and 17-alkyl derivatives thereof. 3,427,386, 2-11-69, Cl. 424-238.
Bowers, Bobby O.: *See—*
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Bowers, Charles E. Guitar pick holder. 3,442,169, 5-6-69, Cl. 84-322.
Bowers, Charles W., to Mac Tools, Inc. Wrench socket with multisided and special shaped driving faces. 3,466,956, 9-16-69, Cl. 81-121.
Bowers, Clarence A.; and Bullington, John W., to Monsanto Company. Chromatography paper produced by impregnating a substrate with a solution of polyester in chloral hydrate. 3,475,208, 10-28-69, Cl. 117-155.
Bowers, David L., to General Electric Company. Stimulator analyzer and locator. 3,426,748, 2-11-69, Cl. 128-2.06
Bowers, Frederic M.; and Wagner, Regina D., to United States of America, Navy. Nondestructive method for testing batteries. 3,440,015, 4-22-69, Cl. 23-230.
Bowers, Grayson Hunter, Jr. Apparatus for making roof trusses. 3,420,514, 1-7-69, Cl. 269-156.

Bowers, Grayson Hunter, Jr. Apparatus for making wall panel frames. 3,431,619, 3-11-69, Cl. 29-200.
Bowers, Herbert L., to Ritter Pfaudler Corporation. Method and apparatus for demineralizing water. 3,444,079, 5-13-69, Cl. 210-37.
Bowers, John O., Jr., to General Dynamics Corporation. Gating circuit utilizing junction type field effect transistor as input driver to gate driver. 3,443,122, 5-6-69, Cl. 307-205.
Bowers, Klaus D., to Bell Telephone Laboratories, Incorporated. Laminate optical memory with selective erase. 3,479,651, 11-18-69, Cl. 340-173.
Bowers, Klaus D.; and Morton, Jack A., to Bell Telephone Laboratories, Incorporated. Optical memory system. 3,421,154, 1-7-69, Cl. 340-174.
Bowers, Lester T.: *See*—
Corrigan, James D.; Bowers, Lester T.; Gilmour, Richard C.; and Wolff, Robert A.,3,436,521.
Bowers, Richard A. Power rake and aerator attachment. 3,455,398, 7-15-69, Cl. 172-21.
Bowers, Virginia S.; Breazeale, Francis B.; and Rice, Charles M., to American Enka Corporation. Torque yarn process. 3,435,607, 4-1-69, Cl. 57-157.
Bowers, William E.; and Whitfill, William A., to Schlumberger Technology Corporation. Methods and apparatus for determining depth in boreholes. 3,465,447, 9-9-69, Cl. 33-133.
Bowersox, Harold W., to Wyandotte Chemicals Corporation. Skimmer. 3,465,882, 9-9-69, Cl. 210-154.
Bowersox, Joseph W. Pop-up traffic sentinal. 3,447,429, 6-3-69, Cl. 94-1.5
Bowes, John D., Jr., to Philco-Ford Corporation. Transceive and tracking antenna horn array. 3,482,251, 12-2-69, Cl. 343-776.
Bowie, Raymond Alexander; Grant, Mervyn Stuart; and Jones, William Glynne Moss, to Imperial Chemical Industries Limited. Esters of 6,7-disubstituted-4-hydroxy- quinoline-3-carboxylic acid. 3,463,779, 8-26-69, Cl. 260-287.
Bowie, William J.: *See*—
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Bowin, Richard E. Apparatus for forming sheet material to provide three dimensional shapes. 3,444,589, 5-20-69, Cl. 18-19.
Bowker, Gordon Stanley: *See*—
Herp, Henry Carl, Jr.; Kelsall, Avery Crowell; Bowker, Gordon Stanley; and Bennett, Hilton Alvin, Jr.,3,453,087.
Bowker, Gordon. Protection of woody perennials. 3,423,875, 1-28-69, Cl. 47-2.
Bowker, Rockton A. Trolling device. 3,470,648, 10-7-69, Cl. 43-21.2
Bowler, Richard G.; and Miller, Robert E., to National Cash Register Company, The. Record sheet sensitized with phenolic polymeric material. 3,466,184, 9-9-69, Cl. 117-36.2
Bowler, William W.: *See*—
Libengood, George B.; and Bowler, William W.,3,483,174.
Bowles, Arnold G., to National Forge Company. Automatically operating air vent for isostatic moulding press. 3,451,101, 6-24-69, Cl. 18-5.
Bowles, Arnold G. Method for the manufacture of brick and tile. 3,461,196, 8-12-69, Cl. 264-148.
Bowles, Arnold G.; and Manelick, James M., to National Forge Company. Self-closing vacuum port for dry bag isostatic moulding press. 3,477,096, 11-11-69, Cl. 18-5.
Bowles, David E. Selective soaper-rinser apparatus. 3,468,325, 9-23-69, Cl. 137-81.5
Bowles, David L.: *See*—
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Bowles Engineering Corporation: *See*—
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Bozek, John S., to Continental Can Company, Inc. Apparatus for redrawing and wall ironing containers. 3,478,563, 11-18-69, Cl. 72-349.
Bozek, John W., to Bendix Corporation, The. Filter element. 3,442,391, 5-6-69, Cl. 210-457.
Bozek, John W., to Bendix Corporation, The. Shut-off valve for fuse filter. 3,478,881, 11-18-69, Cl. 210-96.
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Bracey, Robert A.; Glossop, Donald L., Jr.; Hayosh, Robert J.; and Palazzolo, Joseph A., to Ford Motor Company. Convertible top mechanism. 3,473,842, 10-21-69, Cl. 296-116.
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Brade, James N., to Harrison, Mc Gregor and Guest Limited. Adjustable pitch break back type of reciprocating knife mower frame mount. 3,433,001, 3-18-69, Cl. 56-25.
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Broerman, Arthur B., to Phillips Petroleum Company. Pressure vessels. 3,426,940, 2-11-69, Cl. 220-83.
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Broers, Alec N., to International Business Machines Corporation. Holder for highly reactive cathodes of rare-earth borides such as lanthanum hexaboride the holder provided which a cooling means opposite to the emissive end of the cathode in order to reduce tendency of holder deterioration. 3,462,635, 8-19-69, Cl. 313-311.
Broersma, Robert J., to B & B Engineering Company. Packing machine for nursery stock. 3,426,359, 2-4-69, Cl. 53-124.
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Broetzler, Gustav A., to Coca-Cola Bottling Works Company, The. Universal bottle capping throat. 3,425,187, 2-4-69, Cl. 53-344.
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Brogan, Thomas R.; and Powers, William E., Jr., to United States of America, Air Force. Magnetohydrodynamic motor-generator. 3,436,918, 48-69, Cl. 60-202.
Broggie, Roger E.; and Gurr, Robert H., to Wed Enterprises, Inc. Passenger-carrying apparatus. 3,467,026, 9-16-69, Cl. 105-341.
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Brohult, Astrid Helena; Brohult, Sven Fritiof Abraham; Hallgren, Bo Erik; and Brohult, Johan Axel, to Aktiebolaget Astra. Oral alkyl glycerol ether improvement in radiation, radiomimetic, or cytostatic tumor therapies. 3,432,602, 3-11-69, Cl. 424-307.
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Brois, Stanley J., to Esso Research and Engineering Company. Nematocidal use of tris-ammonium dithiophosphate. 3,449,491, 6-10-69, Cl. 424-128.
Brois, Stanley J., to Esso Research and Engineering Company. Herbicidal aminohydrins. 3,464,811, 9-2-69, Cl. 71-88.
Brois, Stanley J., to Esso Research and Engineering Company. Preparation of 2-aminoethylthiosulfates by reaction of thiosulfuric acid with an aziridine. 3,468,925, 9-23-69, Cl. 260-453.
Brois, Stanley J., to Esso Research and Engineering Company. S-(2-aminoethyl)dithiophosphates and process for the preparation thereof. 3,476,833, 11-4-69, Cl. 260-925.
Broise, Yvon Marie-Xavier, 1/2 to Thorley, Alan. Testing probe for soils. 3,442,123, 5-6-69, Cl. 73-151.
Broise, Yvon Marie-Xavier; and Thorley, Alan. Testing probe for soils. 3,442,122, 5-6-69, Cl. 73-151.
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Brokke, Mervin E.; Lukes, George E., deceased (by Hazzard, John, administrator); and Arkneklev, Duane R., to Stauffer Chemical Company. Amine-phosphorus pentafluoride complexes as herbicides. 3,420,655, 1-7-69, Cl. 71-86.
Brokke, Mervin E.; Lukes, George E., deceased (by Hazzard, John, administrator); and Arneklev, Duane R., to Stauffer Chemical Company. PF_5 adducts of certain substituted acetamides. 3,435,043, 3-25-69, Cl. 260-294.7
Brokke, Mervin E.; Lukes, George E., deceased (by Hazzard, John, administrator); and Arneklev, Duane R., to Stauffer Chemical Company. Furyl ketoxime and furaldoxime- phosphorus pentafluoride complexes. 3,449,374, 6-10-69, Cl. 260-347.7
Brokke, Mervin E.; Lukes, George E., deceased (by Hazzard, John, administrator); and Arneklov, Duane R., to Stauffer Chemical Company. Complexes of phosphorus pentafluoride oximes as herbicides. 3,455,674, 7-15-69, Cl. 71-86.
Brokke, Mervin E.; Lukes, George E., deceased (by Hazzard, John, administrator); and Jarneklev, Duane R., to Stauffer Chemical Company. Complex addition products of phosphorus pentafluroide and substituted nitriles. 3,438,983, 4-15-69, Cl. 260-247.
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Bromer, Heinz; and Meinert, Norbert, to Leitz, Ernst, G.m.b.H. Heavy flint glasses. 3,477,863, 11-11-69, Cl. 106-54.
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Bromer, William W.; Hoehn, Marvin M.; and McGuire, James M., to Lilly, Eli, and Company. Antibiotic A195 and process for the preparation thereof. 3,467,751, 9-16-69, Cl. 424-119.
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Bron, Walter E.; Heller, William R.; and Welber, Benjamin, to International Business Machines Corporation. Memory device and method of information handling utilizing charge transfer between rare earth ions. 3,452,332, 6-24-69, Cl. 340-173.
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Bronnes, Robert L.; Sweet, Richard C.; and Hughes, Ray C., to U.S. Philips Corporation. Hermetic electrical lead-in assembly. 3,464,725, 9-2-69, Cl. 287-189.365
Bronnvall, Wolfgang; and Andreassen, Jostein, to Allmanna Svenska Elektriska Aktiebolaget. Method of manufacturing an insulated electrical conductor. 3,470,045, 9-30-69, Cl. 156-53.
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Bronstein, Jesse B., Jr., to Commercial Solvents Corporation, mesne. Method of making polymethylolalkane mixtures. 3,478,115, 11-11-69, Cl. 260-635.
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Bronstien, Edward L., Jr.; Akerson, David W.; Gaffney, Bernard J.; and Fisher, Richard A., 50% to United States Bedding Company, The, and Wood Conversion Company. Production of cushion and mattress constructions. 3,429,767, 2-25-69, Cl. 161-43.
Bronstien, Edward L., Jr.; Fisher, Richard A.; and Gold, Gorge, 50% to United States Bedding Company, The, and 50% to Wood Conversion Company. System for the production of mattress and cushion constructions. 3,449,190, 6-10-69, Cl. 156-250.
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Brook, Richard J.; and Kingery, William D., to United States of America, Atomic Energy Commission. Method of making paramagnetic nickel ferrite thin films. 3,475,309, 10-28-69, Cl. 204-192.

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Brookes, Robert Frederick; Godson, David Henry; and Leafe, Edward Levi, to Boots Pure Drug Company Limited. Alpha-(4-chloro-2-methylphenoxy) propionanilides. 3,439,018, 4-15-69, Cl. 260-471.
Brookes, William R., to General Electric Company. Process for preparing resinous condensation compositions by reacting a methyloated spaced polyphenol with a monohydric phenol and then reacting the resultant product with aldehyde. 3,438,939, 4-15-69, Cl. 260-57.
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Brooks, Alden W.; Bishop, Clinton L.; Thomas, James R.; and Richard, Kenneth D., to Dayco Corporation. Method of making endless V-type transmission belts having inwardly disposed transverse teeth. 3,464,875, 9-2-69, Cl. 156-138.
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Brooks, Arthur M., to Grace, W. R., & Co. Process for bleaching wood pulp with fluorine, hydrofluoric acid, and oxygen difluoride. 3,481,826, 12-2-69, Cl. 162-63.
Brooks, Arthur M., to Grace, W. R., & Co. Process for bleaching wood pulp with fluorine, hydrofluoric acid, and oxygen difluoride. 3,481,827, 12-2-69, Cl. 162-63.
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Brooks, Chester E.; Henry, James L.; and Meyerle, John A., to Bell Telephone Laboratories, Incorporated. Circuit and method for testing complex systems. 3,435,159, 3-25-69, Cl. 179-175.2
Brooks, David N.; and Harris, Joseph M., to Sylvania Electric Products, Inc. Projector lamp assembly. 3,445,646, 5-20-69, Cl. 240-44.2
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Brooks, Felton D. Security apparatus. 3,451,708, 6-24-69, Cl. 292-264.
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Brooks, Jerry R. Gearless variable drive mechanism. 3,448,627, 6-10-69, Cl. 74-117.
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Broom, Charles M.; and Stevens, Robert H., to Kearney-National Inc. Electrical spider connection. 3,469,020, 9-23-69, Cl. 174-71.

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Broom, Ronald Francis Johnston; Hilsum, Cyril; Bayley, Donald; and Ralphs, John Dennis, to National Research Development Corporation. Electro-optical reading device utilizing a pulsed semiconductor diode lamp. 3,443,109, 5-6-69, Cl. 250-217.

Broome, Arthur William James; Crossley, Neville Stanton; and Jones, William Glynne, to Imperial Chemical Industries Limited. Process for treating helminth infestations using benzanilioe derivatives and compositions for use therein. 3,466,370, 9-9-69, Cl. 424-238.

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Brose, Harlan F., to United Aircraft Corporation. Process and means for regulating the pressure and flow of a stored fluid. 3,425,233, 2-4-69, Cl. 62-45.

Brose, Harlan F., to United Aircraft Corporation. Catalytic burner. 3,479,144, 11-18-69, Cl. 23-288.

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Brosk, Doris A. Combination garment and toy. 3,447,165, 6-3-69, Cl. 2-75.

Brosk, Doris A. Combined garment hanger and holder and toy. 3,475,852, 11-4-69, Cl. 46-116.

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Brown, Victor, to Metropolitan Waste Conversion Corporation, mesne. Composting method for aerobic digestion of organic waste material. 3,451,799, 6-24-69, Cl. 71-9.
Brown, Walter J. Electrical control systems. 3,423,666, 1-21-69, Cl. 321-11.
Brown, Walter J. Rectifier control circuit for motor control. 3,470,439, 9-30-69, Cl. 318-331.
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Brown, Walter R. J., to United-Carr, Incorporated. Sintered coaxial cable. 3,429,982, 2-25-69, Cl. 174-102.
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Brown, Warren G., to International Telephone and Telegraph Corporation. Multiplex channel gate pulse generator from an intermixture of time division multiplex pulse trains. 3,437,755, 4-8-69, Cl. 178-50.
Brown, Warren G., to International Telephone and Telegraph Corporation. Time position selection system. 3,456,082, 7-15-69, Cl. 179-15.
Brown, Warren G.; and Lott, Roy E., Jr., to United States of America, Army, mesne. Multivibrator enabling circuit. 3,443,246, 5-6-69, Cl. 331-113.
Brown, Wayne R.; Cawley, Terence J.; and Van Tilburg, Robert W., to Corning Glass Works. Fluid operated apparatus. 3,429,324, 2-25-69, Cl. 137-81.5
Brown, Wayne S.; and Partridge, William S., to University of Utah. Continuous electrolplating apparatus. 3,463,719, 8-26-69, Cl. 204-216.
Brown, Wilbur P., Jr., to Hughes Aircraft Company. Iterated electro-optic prism deflector arrangement. 3,450,460, 6-17-69, Cl. 350-150.
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Brown, William C.; George, Roscoe H.; Heenan, Neil I.; and Wonson, Roger C., to Raytheon Company. Microwave to DC converter. 3,434,678, 3-25-69, Cl. 244-1.
Brown, William E.; and Garnier, John J., to Cutler-Hammer, Inc. Apparatus for returning ink mist back to its source. 3,460,475, 8-12-69, Cl. 101-350.
Brown, William E.; Heitz, Roberg G.; and Levine, Charles A., to Dow Chemical Company, The. Battery cell. 3,476,602, 11-4-69, Cl. 136-6.
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Brown, William Haddon: *See—*
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Brown, William H., to United Aircraft Corporation. Variable flow turbofan engine. 3,449,914, 6-17-69, Cl. 60-225.
Brown, William H., 'Automatic'Sprinkler Corporation of America, mesne. Demand valve. 3,467,137, 9-16-69, Cl. 137-494.
Brown, William J., to Bell Telephone Laboratories, Incorporated. Monitor circuit. 3,444,543, 5-13-69, Cl. 340-213.
Brown, William Lewis; and Schmucker, Morton Lee, to Morrell, John, & Co. Process for improving the color of comminuted meat. 3,477,859, 11-11-69, Cl. 99-159.
Brown, William M., to Continental Can Company, Inc. Partition for containers. 3,432,029, 3-11-69, Cl. 206-65.
Brown, William R., to Control Data Corporation, mesne. Ring-type flow meter. 3,449,954, 6-17-69, Cl. 73-212.
Brown, William R., to Control Data Corporation, mesne. Float operated liquid level transmitter. 3,459,042, 8-5-69, Cl. 73-313.
Brown, William R., to Control Data Corporation, mesne. In-flume transmitter. 3,460,387, 8-12-69, Cl. 73-313.

Browne, Andrew T. Low liquid level control device. 3,435,731, 4-1-69, Cl. 91-4.
Browne, Robert Y., to Girdler Corporation. Ammonia converter. 3,442,626, 5-6-69, Cl. 23-288.
Browne, Sidney, to Page Communications Engineers, Inc. Frequency shift diversity receiver with output determined by majority of inputs. 3,422,357, 1-14-69, Cl. 325-320.
Browne, Thomas E.; Gaunt, Wilmer B., Jr.; Goldschmidt, Karl; Vigliante, Frank S.; Williford, Oscar H.; and York, Robert K., to Bell Telephone Laboratories, Incorporated. Remote switch unit in a common control telephone system. 3,426,158, 2-4-69, Cl. 179-27.
Brownell, David A. Pump assembly. 3,460,480, 8-12-69, Cl. 103-120.
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Brownell, Roy D.; and Woolman, Granville, to Baldwin-Lima-Hamilton Corporation. Level-crowd control system for material handling loaders. 3,463,335, 8-26-69, Cl. 214-138.
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Browning, James A., 3,482,640.
Browning, Gordon D. Container sorting apparatus. 3,441,132, 4-29-69, Cl. 209-72.
Browning, Iben. Camera apparatus and film. 3,427,942, 2-18-69, Cl. 95-11.
Browning, Iben. Portable copy machine. 3,445,164, 5-20-69, Cl. 355-82.
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Browning, James A., to Thermal Dynamics Corporation. Electrothermal thruster. 3,425,223, 2-4-69, Cl. 60-203.
Browning, James A., to Browning Engineering Corporation. Flame jet drilling. 3,476,194, 11-4-69, Cl. 175-14.
Browning, James A., to Browning Engineering Corporation. Blast hole drilling method. 3,482,640, 12-9-69, Cl. 175-14.
Browning, James A.; and Fitzgerald, Ernest M., to Browning Engineering Corporation. Method of flame drilling with abrasives. 3,463,249, 8-26-69, Cl. 175-14.
Browning, James A.; and Pratt, Chapin A., to Thermal Dynamics Corporation. Electric arc torches. 3,472,995, 10-14-69, Cl. 219-75.
Browning, Luther C., to Addressograph-Multigraph Corporation. Photoelectrostatic recording member. 3,486,888, 12-30-69, Cl. 96-1.7
Browning, Val A., to Browning Industries, Incorporated. Firing mechanisms for double barrel, single trigger firearms. 3,421,243, 1-14-69, Cl. 42-42.
Browning, William C., to Milchem Incorporated. Drilling mud additive for filtration control. 3,441,504, 4-29-69, Cl. 252-8.5
Brownlee, William G. Surgical sponge and method of producing same. 3,464,415, 9-2-69, Cl. 128-296.
Brownlee, Winston E., to Parsons Corporation. Method of brazing attachments onto rotor blade spars. 3,419,954, 1-7-69, Cl. 29-482.
Brownlow, James M., to International Business Machines Corporation. Method of making magnetic thin film device. 3,480,522, 11-25-69, Cl. 204--040
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Brownstein, Arthur M., to Princeton Chemical Research, Inc. Anaerobic adhesive. 3,428,614, 2-18-69, Cl. 260-77.5
Brownstein, Arthur M., to Princeton Chemical Research Inc. Anaerobic adhesive. 3,451,980, 6-24-69, Cl. 260-78.5
Brownstein, Arthur M., to Princeton Chemical Research, Inc. Electrochemical acyloxylation process. 3,453,188, 7-1-69, Cl. 204-72.
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Brownstein, Arthur M.; and Pascale, John V., to Allied Chemical Corporation. Process for the preparation of isocyanates. 3,465,025, 9-2-69, Cl. 260-453.
Brownstein, Arthur M.; and Sibilia, John P., to Allied Chemical Corporation. Process for the preparation of isocyanates. 3,465,024, 9-2-69, Cl. 260-453.
Brownstein, Arthur M.; and Sibilia, John P., to Allied Chemical Corporation. Process for the preparation of isocyanates. 3,483,242, 12-9-69, Cl. 260-453.
Brownstein, Raymond G. Method for levelling sheet stock. 3,459,027, 8-5-69, Cl. 72-366.
Brownsword, John E., to Goodyear Tire & Rubber Company, The. Soluble cured polyester polyurethanes. 3,446,781, 5-27-69, Cl. 260-75.
Brownyer, Nelson R., to North American Rockwell Corporation. Method of making tapered spring leaf. 3,439,400, 4-22-69, Cl. 29-173.
Broxmeyer, Charles; and De Simone, Aldo, to Massachusetts Institute of Technology. Inertial reference unit. 3,426,592, 2-11-69, Cl. 73-178.
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Brubaker, Wilson M., to Bell & Howell Company. Mass analyzer using two spaced, tubular, and coaxial electrodes. 3,473,018, 10-14-69, Cl. 250-41.9
Brubaker, Wilson M., to Bell & Howell Company. Mass analyzer with extension means to decrease the distance between electrode surfaces. 3,473,019, 10-14-69, Cl. 250-41.9
Brubaker, Wilson M., to Bell & Howell Company. Mass analyzer having series aligned curvilinear and rectilinear analyzer sections. 3,473,020, 10-14-69, Cl. 250-41.9
Brubaker, Wilson M.; and Berry, Clifford E., deceased0 (by Berry, Jean R.; executrix), to Bell & Howell Company, mesne. Mass spectrometer ion source having a laser to cause autoionization of gas. 3,478,204, 11-11-69, Cl. 250-41.9
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Bruckmann, Paul-Gunther; Logemann, Heino; and Suling, Carlhans, to Farbenfabriken Bayer Aktiengesellschaft. Artificial denture compositions and their production. 3,468,977, 9-23-69, Cl. 260-885.
Bruckmann, Paul; Logemann, Heino; and Suling, Carlhans, to Farbenfabriken Bayer Aktiengesellschaft. Transparent dentures. 3,446,875, 5-27-69, Cl. 260-885.
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Bruet, Henri Rene, to Etablissements A. Cazeneuve. Carriage control devices for machine tools. 3,447,407, 6-3-69, Cl. 82-22.
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Bruist, Edmond H., to Shell Oil Company. Consolidation of oil-bearing formations. 3,483,926, 12-16-69, Cl. 166-288.
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Brunel, Henri. Product for protecting against and inhibiting corrosion. 3,467,533, 9-16-69, Cl. 106-14.
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Brzozowski, Wojciech; Mikos, Michal Mikos; and Niewiadomski, Janusz. Method of and means for heat-treating refractory materials at high temperatures. 3,449,505, 6-10-69, Cl. 13-1.
Bschorer, Konrad; Muller, Johann; and Ostler, Josef, to Deckel, Friedrich, Prazisions Mechanik und Maschinenbau. Copying milling machine. 3,465,642, 9-9-69, Cl. 90-13.1
Bschorr, Oskar. Vibration generator. 3,446,059, 5-27-69, Cl. 73-71.5
Bschorr, Oskar; and Kubanke, Detlev. Siren for the generation of sine wave sound and random noise. 3,446,182, 5-27-69, Cl. 116-147.
BSR Limited: *See—*
Evans, Philip H., 3,450,323.
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Berberian, John A., 3,435,730.
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Bua, William J., 25% to Lobato, Emmanuel J. Composite containers. 3,437,257, 4-8-69, Cl. 229-51.
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Buc, George L.: *See—*
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Buc, Saul R., deceased (by Buc, Dolores M., administratrix); and Woodward, Fred E., to GAF Corporation. Method of controlling pests with mercury compounds. 3,443,013, 5-6-69, Cl. 424-245.
Bucalo, Louis, to Kinemotive Corporation. Temperature-compensated pressure transducer. 3,472,077, 10-14-69, Cl. 73-393.
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Buchanan Electric Products Corporation: *See—*
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Buchanan, James B. Hydroxamate carbamates as nematocides. 3,459,866, 8-5-69, Cl. 424-327.
Buchanan, James Meek, to Advance Data Systems Corporation. Photosensitive circuit for controlling the intensity of a lamp. 3,456,155, 7-15-69, Cl. 315-151.
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Buchanan, Russell A.; and Russell, Charles R., to United States of America, Agriculture. Starch resin reinforced rubbers. 3,480,572, 11-25-69, Cl. 260-17.2
Buchanan, Russell A.; Russell, Charles R.; and Weislogel, Orville E., to United States of America, Agriculture. Reinforced rubber by coprecipitation with starch xanthane or pregelatinized starch. 3,442,832, 5-6-69, Cl. 260-17.4
Buchanan, William L.; and Straight, Harry F., Jr., to Esso Research and Engineering Company. Vortex burner. 3,476,494, 11-4-69, Cl. 431-353.
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Bucher, Erich; Osterreicher, Wolfgang; and Mahlmann, Werner, to Zinser-Textilmaschinen Gesellschaft mit beschrankter Haftung. Spindle braking apparatus for textile machines. 3,426,520, 2-11-69, Cl. 57-88.
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Bucher, Jeffery C. System for starting an engine from a remote location. 3,478,730, 11-18-69, Cl. 123-179.
Bucher, Paul. Safety steering wheel. 3,435,701, 4-1-69, Cl. 74-552.
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Buchholz, Klaus; and Hoose, Werner, to Hamburger Flugzeugbau GmbH. Aircraft with storable lifting jets. 3,455,524, 7-15-69, Cl. 244-58.
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Buchner, Norbert; and Kohnlein, Rolf, to Hesser, Fr., Maschinenfabrik, A.G. Container, particularly for liquids. 3,430,805, 3-4-69, Cl. 220-66.
Buchner, Robert Bertold, to U.S. Philips Corporation, mesne. Switching networks. 3,458,663, 7-29-69, Cl. 179-18.
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Buchy, Francois Ch.; and Bauduin, Philippe G., to Laboratoire Central des Industries Electriques. Device for the detection and measurement of very small displacements by converting the said displacements into variable frequency oscillations. 3,487,220, 12-30-69, Cl. 250-211.

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Bucil, Frantisek; Hybl, Josef; Kabele, Stanislav; and Vecera, Milos, to Bavlnarsky, Vyzkumny Ustav. Apparatus for supplying separated fibers to a spinning apparatus. 3,439,488, 4-22-69, Cl. 57-58.95

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Buck, Francis Fremonte; and De Renzo, Edward Clarence, to American Cyanamid Company. Process for purifying plasmin. 3,434,929, 3-25-69, Cl. 195-66.

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Buck, Henry M.; Bruecher, Judith F.; Carlton, Louis A.; and Pierce, Aaron E., to Esso Production Research Company. Subsurface fluid flow diverter. 3,431,974, 3-11-69, Cl. 166-136.

Buck, James G.; Winkless, Robert A.; and Gerber, Howard L., to Continental Can Company, Inc. Electrical heat treating system for sealing cartons or the like. 3,450,856, 6-17-69, Cl. 219-10.53

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Buck, Norman R. Method of preparing printed wiring. 3,448,516, 6-10-69, Cl. 29-625.

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Buck, Thomas M.; and Dalton, John V., to Bell Telephone Laboratories, Incorporated. Electron beam charge storage device employing diode array and establishing an impurity gradient in order to reduce the surface recombination velocity. 3,458,782, 7-29-69, Cl. 317-235.

Buck, Thomas M.; and Satterwhite, Fred B., to Klinger Manufacturing Company, Limited, The. Method of continuously dyeing and stretching undrawn yarn. 3,434,189, 3-25-69, Cl. 28-75.

Buck, Thomas Olaf, to Meade Electric Company of Indiana, Inc. Heat exchange housing for television camera and the like. 3,464,218, 9-2-69, Cl. 62-3.

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Buck, Willard E., to Technical Operations, Incorporated, mesne. Reflecting prism camera. 3,480,353, 11-25-69, Cl. 352-108.

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Buckingham, Arthur G.; and Haney, Thomas P., to Westinghouse Electric Corporation. Attitude control system. 3,429,524, 2-25-69, Cl. 244-1.

Buckingham, Herbert Charles; and Penson, Michael, to British Oxygen Company, The. Submerged arc welding of nickel steels. 3,448,241, 6-3-69, Cl. 219-146.

Buckinham, Donald F. Phototypecomposer. 3,455,216, 7-15-69, Cl. 95-4.5

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Buckland, Ivor John, to International Nickel Company, Inc., The. Apparatus for the extraction of hydrogen from gas mixtures. 3,452,517, 7-1-69, Cl. 55-158.

Buckland, Paul S., to Goodyear Tire & Rubber Company, The. Method of making vehicle tire tread. 3,462,328, 8-19-69, Cl. 156-114.

Buckle, Richard Percy Stanley, to Sovex Limited. Selective delivery conveyors. 3,444,985, 5-20-69, Cl. 198-38.

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Buckler, Sheldon; and Epstein, Martin, to American Cyanamid Company. Tertiary phosphine oxides. 3,454,650, 7-8-69, Cl. 260-606.5

Buckley, Donald H.; and Johnson, Robert L., to United States of America, National Aeronautics and Space Administration. Alloys for bearings. 3,466,243, 9-9-69, Cl. 252-12.

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Dumont, Thomas P.; and Buckley, Herman T.,3,441,953.

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Buckley, John J.; and Shearer, Joseph W., Jr., to Westinghouse Electric Corporation. Angular velocity measuring device. 3,429,188, 2-25-69, Cl. 73-505.

Buckley, Lawrence G., to Welsh Panel Company. Method and apparatus of producing relief pattern. 3,425,303, 2-4-69, Cl. 82-14.

Buckley, Robert E.: *See—*
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Buckley, Thaddeus M., to Varian Associates. Microwave window employing a half-wave window structure with internal inductive matching structure. 3,439,296, 4-15-69, Cl. 333-98.

Buckley, William J., Jr.: *See—*
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Bucklin, Edward P., Jr.; Pollack, Werner; and Carlson, Carl O., to National Cash Register Company, The. Optical character reading system. 3,434,110, 3-18-69, Cl. 340-146.3

Buckman, John D.; Pera, John D.; and Raths, Fred W., to Buckman Laboratories, Inc. Methylene bisesters of thiolsulfonic acids. 3,484,473, 12-16-69, Cl. 260-453.

Buckman, Kenneth Ernest, to General Motors Corporation. Air filter assemblies for internal combustion engines. 3,473,301, 10-21-69, Cl. 55-510.

Buckman Laboratories, Inc.: *See—*
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Buckman, Stanley J.; Pera, John D.; and Raths, Fred W., 3,463,785.
Buckman, Stanley J.; Kirchen, Charles P.; and Gendron, Claude G., to Buckman Laboratories, Inc. Preparation of chemical pulp from wood chips. 3,448,004, 6-3-69, Cl. 162-75.
Buckman, Stanley J.; Pera, John D.; and Raths, Fred W., to Buckman Laboratories, Inc. S-Thiocyanomethyl compounds of 2-mercaptobenzo- thiazoles, 2-mercaptobenzoxazoles, and 2-mercapt- benzimidazoles. 3,463,785, 8-26-69, Cl. 260-306.6
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Bucknell, Ernest H.: *See—*
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Bucknell, Ernest H.; and Ward, Irving A., 10% to Bletcher, Ralph E., deceased, trust of, 5% each to Robertson, Frederick, and Robertson, Gary, 10% each to Bucknell, Lenora, and Bletcher, Richard J., 5% to Liston, Marcia, as trustee for Liston, Daniel E., 5% each to Liston, Carol Ann, and Liston, James H., 10% each to Brondum, Hazel, and Bletcher, Pearl, 15% to Liston, Marcia, and 10% to Bucknell, Ernest H. Balanced control mixing valve. 3,460,570, 8-12-69, Cl. 137-607.
Bucknell, Ernest H.; and Ward, Irving A., 10% to Bletcher Pearl W., 5% to the estate of Bletcher, Ralph E., deceased 3 1/3% to Bletcher, James H., trustee 10% to Brondum, Hazel S., 8% to Robertson, Charlotte, 1% to Robertson, Kenneth, trustee 2 2/3% to Robertson, Gary B., 8% to Bletcher, James H., 2% to Bletcher, Richard J., 8% to Bucknell, E. H., 4 1/2% to Glauber, Myron, trustee, 12 1/2% to the estate of Bucknell, Mabel, deceased, 20 1/2% to Liston, Marcia B., and, 4 1/2% to Liston, Daniel B., trustee. Diverting spout. 3,461,901, 8-19-69, Cl. 137-119.
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Cadiou, Jean Georges, to Societe Anonyme Andre Citroen. Method of manufacture of tanks for fluids under pressure. 3,461,530, 8-19-69, Cl. 29-157.

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Cadiou, Jean G., to Societe Anonyme Andre Citroen. Fuel metering apparatus for an engine. 3,421,487, 1-14-69, Cl. 123-140.

Cadiou, Jean G. Synchromesh transmission. 3,425,292, 2-4-69, Cl. 74-359.

Cadiou, Jean G., to Societe Anonyme Andre Citroen. Elastic stub-axle systems of wheels. 3,439,955, 4-22-69, Cl. 301-133.

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Cadle, Norman; and Bridenbaugh, Carl G. Collapsible back-up ring for pipe welding. 3,460,736, 8-12-69, Cl. 228-50.

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Cadman, Harold O., to Phelan, Louis, A. M. Pump. 3,479,961, 11-25-69, Cl. 103-126.

Cadmus, Eugene L., to Wood-Ridge Chemical Corporation. Process for production of mercuric chloride and red oxide of mercury. 3,424,552, 1-28-69, Cl. 23-87.

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Cadwell, Gilbert C., to Rohr Corporation. Electric discharge machine and method of metal forming. 3,452,565, 7-1-69, Cl. 72-56.

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Cady, Charles A. Method and apparatus for charging storage batteries. 3,487,284, 12-30-69, Cl. 320-20.

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Cady, Walter G., to North American Rockwell Corporation. Piezoelectric transducer. 3,437,851, 4-8-69, Cl. 310-9.6

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Cagan, Bernard J.; and Tomeo, Carl Anthony, Jr., to Placo Products Company. Driving mechanism for toy vehicles. 3,474,566, 10-28-69, Cl. 46-206.

Cagen, George, to Ideal Toy Corporation. Toy boat. 3,447,259, 6-3-69, Cl. 46-243.

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Cahill, Gerald F.; Avtges, James A.; and Hundt, Donald D., to Grace, W. R., & Co. Process of preparing cellular closure gaskets. 3,444,281, 5-13-69, Cl. 264-45.

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Cahill, John J. Reinforcement applicator. 3,457,815, 7-29-69, Cl. 83-140.

Cahill, John W., to Globe Manufacturing Company. Girdle. 3,454,013, 7-8-69, Cl. 128-540.

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Cahn, Charles R., to Magnavox Company, The. Time gated pseudonoise multiplexing system. 3,475,558, 10-28-69, Cl. 179-15.

Cahn, Jean; and Denis, Jean-Claude. Mental performance with potassium N-acetyl DL aminosuccinate. 3,433,875, 3-18-69, Cl. 424-319.

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Cain, Clifford William, Jr.: *See—*
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Cain, Dallas E., to General Electric Company. One-way brake system. 3,452,840, 7-1-69, Cl. 188-77.

Cain, Earl S.; Carlson, Jerome A.; and Goodrich, George E., to Bearings, Seals & Gears, Inc. Ball transfer or caster unit. 3,466,697, 9-16-69, Cl. 16-26.

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Cain, Robert L.: *See—*
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Caiola, Robert J.; and Rokosz, Leo F., to Dow Chemical Company, The. Polymeric compositions from α,β-monoethylenically unsaturated aldehydes and diamines and method for the preparation thereof. 3,459,710, 8-5-69, Cl. 260-72.

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Cairns, Elton J., to General Electric Company. Fuel cell electrolyte and process of using. 3,432,358, 3-11-69, Cl. 136-86.

Cairns, Robert Edward, to Monsanto Company. Adhered windshield with concealed adherent. 3,425,176, 2-4-69, Cl. 52-208.

Cairns, Theodore L., to Du Pont de Nemours, E. I., and Company. Pharmaceutical compositions and methods utilizing 3-aminotricyclo[4.3.1.1.$^{3-8}$] undecanes. 3,456,057, 7-15-69, Cl. 424-325.

Cairns, Thomas M., to Ford Motor Company. Electric terminal. 3,482,207, 12-2-69, Cl. 339-258.

Cairns, Thomas M., to Ford Motor Company. Electrical connector. 3,487,355, 12-30-69, Cl. 339-176.

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Caldemeyer, Daniel F. Entertainment center. 3,467,455, 9-16-69, Cl. 312-7.

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Calderhead, Henry J., deceased (by Calderhead, Catharine E., administratrix); and Puljer, Philip F., to Bird Electronic Corporation. Thermocouple milliwattmeter. 3,447,082, 5-27-69, Cl. 324-106.

Calderon, Albert, to Calderon Wellman Limited, mesne. Method of and apparatus for continuously casting steel. 3,472,309, 10-14-69, Cl. 164-73.

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Calderon, Nissim, to Goodyear Tire & Rubber Company, The. Polyalkylene oxide polymerization process and product. 3,422,034, 1-14-69, Cl. 260-2.

Calderon, Nissim, to Goodyear Tire & Rubber, Company, The. Macrocyclic compounds preparation. 3,439,056, 4-15-69, Cl. 260-666.

Calderon, Nissim, to Goodyear Tire & Rubber Company, The. Preparation of macrocyclic compounds. 3,439,057, 4-15-69, Cl. 260-666.

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Caldwell, Carlyle G.; Jarowenko, Wadym; and Hodgkin, Irving D., to National Starch and Chemical Corporation. Method of making paper containing starch derivatives having both anionic and cationic groups, and the product produced thereby. 3,459,632, 8-5-69, Cl. 162-175.

Caldwell, Clarence A. Irrigation pump control apparatus. 3,448,689, 6-10-69, Cl. 103-25.

Caldwell, Clarence H. Window cleaning apparatus. 3,428,990, 2-25-69, Cl. 15-232.

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Caldwell, Edgar W. Dispensing device for collapsible tubes. 3,478,928, 11-18-69, Cl. 222-103.

Caldwell, Frederick Clay, to Caldwell, E. L., Inc. Tractor drawn multiple section foldable mower. 3,473,302, 10-21-69, Cl. 56-6.

Caldwell, Henry C.; and Groves, William G., to Smith Kline & French Laboratories. 3-Tropanyl-2-aminophenylacrylate compounds. 3,458,507, 7-29-69, Cl. 260-242.

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Jackson, Winston Jerome, Jr.; and Caldwell, John R.,3,454,672.
Caldwell, John R., to Eastman Kodak Company. Dyeable polymers. 3,432,472, 3-11-69, Cl. 260-75.
Caldwell, John R., to Eastman Kodak Company. Poly(amide-esters) of aromatic compounds. 3,440,218, 4-22-69, Cl. 260-47.
Caldwell, John R., to Eastman Kodak Company. Articles prime coated with polyesters containing free carboxyl groups. 3,459,584, 8-5-69, Cl. 117-72.
Caldwell, John R., to Eastman Kodak Company. Polyester fibers having improved hydrophilicity as a result of modification with phosphoric acid, phosphorous acid or perchloric acid. 3,460,896, 8-12-69, Cl. 8-i15.5
Caldwell, John R., to Eastman Kodak Company. Blends of polyesters containing free carboxyl groups and laminate thereof. 3,484,339, 12-16-69, Cl. 161-231.
Caldwell, John R.; and Gilkey, Russell, to Eastman Kodak Company. Polyester article coated with a cured, cross- linked polyester derived from (a) at least one polyhydric alcohol (b) at least one dicarboxylic compound and (c) a poly(oxyethylene) alcohol. 3,464,852, 9-2-69, Cl. 117-138.8
Caldwell, John R.; and Hedberg, David G., Jr., to Eastman Kodak Company. Dyeable polyolefin compositions and products therefrom. 3,431,322, 3-4-69, Cl. 260-873.
Caldwell, John R.; and Hill, Edward H., to Eastman Kodak Company. Polymers of phosphate esters. 3,449,303, 6-10-69, Cl. 260-80.71
Caldwell, John, to English Electric Company Limited, The. Natural draught dry cooling towers. 3,474,855, 10-28-69, Cl. 165-47.
Caldwell, Keith G. Stylus and equipment testing record for record players. 3,460,841, 8-12-69, Cl. 274-42.
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Caldwell, Roland B., to Ranco Incorporated. Variable time delay mechanism. 3,426,380, 2-11-69, Cl. 15-250.12
Caldwell, Roland B., to Ranco Incorporated. Automotive temperature control. 3,428,115, 2-18-69, Cl. 165-23.
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Cale, Roland E., to Schaefer Equipment Company. Railroad car brake dead lever link anchor. 3,423,112, 1-21-69, Cl. 287-20.1
Cale, Roland E., to Schaefer Equipment Company. Railroad car brake dead lever link anchor. 3,441,301, 4-29-69, Cl. 287-189.36
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Campbell, Robert L. Noncurling floor protector. 3,427,705, 2-18-69, Cl. 29-449.
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Campbell, Trevor G., to Caterpillar Tractor Company. Pivoted cutting edge for earthmoving scrapers. 3,486,254, 12-30-69, Cl. 37-129.
Campbell, Trevor G.; Coogan, Lawrence P.; and Hosoda, Yoshimi, to Caterpillar Tractor Company. Push-pull coupling for tractor-scraper units. 3,434,738, 3-25-69, Cl. 280-477.
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Campbell, Trevor G.; Lichti, Robert W.; and Liess, Richard K., to Caterpillar Tractor Company. Self-loading scraper with elevator mounting coupled to ejection means. 3,452,458, 7-1-69, Cl. 37-8.
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Campbell, William B.; and Kingery, William D., to Lexington Laboratories, Inc. Preparation of alumina crystals from a vapor phase reaction by monitoring the spectral scattering of light. 3,449,071, 6-10-69, Cl. 23-142.
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Canteloube, Andre. Process and apparatus for the automatic manufacture of panels with integrated tube-circuits. 3,442,001, 5-6-69, Cl. 29-407.
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Cantrill, James E., to General Electric Company. Vinyl polymer grafts on polycarbonates. 3,462,515, 8-19-69, Cl. 260-873.
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Caple, Donald, to Orenda Limited, mesne. Releasable fluid seal for conduits. 3,444,898, 5-20-69, Cl. 138-89.
Caporali, Giorgio; Barberis, Giuseppe; Ferlazzo, Natale; and Penzo, Vittorio, to Montecatini Edison S.p.A. Process for the purification of acrylonitrile. 3,462,477, 8-19-69, Cl. 260-465.3
Caporali, Giorgio; Ferlazzo, Natale; Giordano, Nicola; and Faletti, Franco, to Montecatini Edison S.p.A. Ammoxidation of alkylated aromatic hydrocarbons to aromatic nitriles using a heteropolycompound as a catalyst. 3,452,077, 6-24-69, Cl. 260-465.
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Capozzi, Anthony J. Telemetry word forming unit. 3,431,559, 3-4-69, Cl. 340-172.5
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Cappell, Charles W.; and Kreske, Gerald H., to Wiegand, Edwin L., Company. Electric air heater for automatic choke. 3,423,569, 1-21-69, Cl. 219-374.

Cappelli, Joseph A.; Guattery, Antonio P.; Rebar, Edward; Sobin, George; and Becht, George L., said Becht assor to ACF Industries, Incorporated, said Capelli, said Guattery, said Rebar, and said Sobin assors to National Lead Company. Method and means for unloading bulk transported pulverulent materials. 3,451,724, 6-24-69, Cl. 302-14.

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Capps, David B., to Parke, Davis & Company. N-(5-Nitro-2-thiazolyl)- cycloalkanecarboxamides. 3,475,446, 10-28-69, Cl. 260-306.8

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Cardeiro, Charles P., to Universal Interloc, Inc., mesne. pH meter and control system. 3,440,525, 4-22-69, Cl. 324-30.

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Carson, Samuel Corbett, to Imperial Chemical Industries Limited. Purification of hydrogen chloride. 3,464,787, 9-2-69, Cl. 23-154.
Carson, Samuel Corbett, to Imperial Chemical Industries Limited. Catalytic process for the manufacture of alkyl halides and catalysts therefor. 3,484,494, 12-16-69, Cl. 260-657.
Carson, Samuel Corbett; and Morris, George Oswald, to Imperial Chemical Industries Limited. Catalytic process for preparing alkyl chlorides or bromides. 3,484,495, 12-16-69, Cl. 260-657.
Carson, William N., to General Electric Company. Battery discharge control. 3,422,337, 1-14-69, Cl. 320-14.
Carsten, Paul W., to Aquamation Inc. Pilot actuated valve. 3,460,798, 8-12-69, Cl. 251-30.
Carstens, Jorgen V. Method of delivering superimposed folded sheets as prepared books. 3,441,267, 4-29-69, Cl. 270-45.
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Carstensen, Jens Thuroe; Newmark, Harold Leon; and Vance, John James, to Hoffmann-La Roche Inc. Stable compositions containing eicosatetrayn-(5,8, 11,14)-oic-(1) acid and derivatives thereof. 3,450,821, 6-17-69, Cl. 424-318.
Carstensen, Jens Thuroe; Sheth, Prabhakar Ranchhordas; and Vance, John James, to Hoffmann-La Roche Inc. Tablets containing 7-chloro-2-methylamino-5- phenyl-3H-1,4-benzodiazepine-4-oxide and conjugated estrogenic substances. 3,487,152, 12-30-69, Cl. 424-240.
Carstensen, John P., to Monsanto Company. Sodium carbonate-free phenol-formaldehyde adhesive compositions. 3,450,651, 6-17-69, Cl. 260-7.
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Carston, Walter. Earth moving machine incorporating power off-loading system. 3,486,251, 12-30-69, Cl. 37-4.
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Carter, Alfred M. Combined load leveler and overload device. 3,462,169, 8-19-69, Cl. 280-124.
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Carter, Carl W.; and Johnson, Lloyd E., to Caterpillar Tractor Company. Lubrication system for a gas turbine engine. 3,486,582, 12-30-69, Cl. 184-6.
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Carter, Daniel T., to United States Steel Corporation. Apparatus for continuously electroplating a metallic strip. 3,483,113, 12-9-69, Cl. 204-206.

Carter, Donald E., to Combustion Engineering, Inc. Descaling process and material. 3,475,230, 10-28-69, Cl. 148-13.1
Carter, Donald E.; and Hurst, Kenneth, to Combustion Engineering, Inc. Descaling process and material. 3,475,231, 10-28-69, Cl. 148-13.1
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Carter, Ernest P.; and Bell, Robert P., Jr., to Monsanto Company. Filament supply system. 3,425,460, 2-4-69, Cl. 139-100.
Carter, Frank H. Grip and twist bottle cap remover. 3,453,911, 7-8-69, Cl. 18-3.42
Carter, Frederick H. N.; Martinson, William V.; and Olsson, Sven M. J. Furnace construction. 3,429,973, 2-25-69, Cl. 13-9.
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Carter, George J. Nonpercussive viscous-shear milling process for platy materials. 3,446,442, 5-27-69, Cl. 241-15.
Carter, George W., to RCA Corporation. Gain control biasing circuits for field-effect transistors. 3,480,873, 11-25-69, Cl. 330-29.
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Carter, Jennings Faulk. Electric hair singer. 3,474,224, 10-21-69, Cl. 219-223.
Carter, John Anthony; and Tyler, Geoffrey James, to British Nylon Spinners Limited. Manufacture of polyamides from aromatic dicarboxylic acids. 3,475,387, 10-28-69, Cl. 260-78.
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Carter, Mary E.; and Price, John A., to FMC Corporation. Hexafluorophosphates as first stage additives. 3,425,996, 2-4-69, Cl. 260-75.
Carter, Mary E.; and Price, John A., to FMC Corporation. Process of preparing polyethylene terephthalate using metal silicates as catalyst. 3,451,970, 6-24-69, Cl. 260-75.
Carter, Mary E.; and Price, John A., to FMC Corporation. Process of preparing polyethylene terephthalate using alkali metal thiocyanate or alkaline earth metal thiocyanate direct esterification additives. 3,457,238, 7-22-69, Cl. 260-75.
Carter, Mary E.; and Price, John A., to FMC Corporation. Direct esterification method of preparing polyethylene terephthalate with an ammonium or metal salt of ethylenediaminetetraacetic acid. 3,479,324, 11-18-69, Cl. 260-75.
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Carter, Richard S., to International Business Machines Corporation. Overlapping boundary storage. 3,440,615, 4-22-69, Cl. 340-172.5
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Carter, Stephen Barnaby, to Imperial Chemical Industries Limited. Microscope slides and method of manufacturing. 3,445,152, 5-20-69, Cl. 350-95.
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Chambon, Louis Jean, to Societe d'Etudes de Machines Speciales Societe Anonyme. Machine for the continuous moulding of a pulverulent or crystalline product in the form of separate lumps. 3,436,791, 4-8-69, Cl. 18-4.
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Champ, Robert B.; and Halperin, Bernard I., to International Business Machines Corporation. Diazotype materials and methods for producing diazotype images. 3,427,165, 2-11-69, Cl. 96-49.
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Chance, Dudley A., to International Business Machines Corporation. Process for etching silicon monoxide and etchant solutions therefor. 3,434,896, 3-25-69, Cl. 156-17.
Chance, Harold C. Setting tool for bolt anchor. 3,472,052, 10-14-69, Cl. 72-114.
Chance, Leon H.; Leonard, Ethel K.; and Drake, George L., Jr., to United States of America, Agriculture. Haloalkyl phosphinic acids and their application to cotton. 3,484,184, 12-16-69, Cl. 8-120.
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Chancellor, Charles W., Jr., to Chanceller Chair Company. Combination wall mounted dryer and heater. 3,449,838, 6-17-69, Cl. 34-90.
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Chand, Ramesh, to Analytic Systems Company. Method of making oxygen measuring cells. 3,449,162, 6-10-69, Cl. 117-210.

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Malm, John A., 3,452,630.
Chandler, Arthur D., Jr.; and Florestano, Herbert J., to Dow Chemical Company, The. Griseofulvin-perezone composition. 3,471,615, 10-7-69, Cl. 424-195.
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Chandler, Edmond A.; and Winslow, Kenelm W., to USM Corporation. Adhesive processes. 3,483,581, 12-16-69, Cl. 12-142.
Chandler Evans Inc.: *See*—
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Chandler, Huel H., Jr.; Morrell, Henry P.; and Sayers, Paul G., to Martin-Marietta Corporation. Ceramic filled plastic system. 3,459,701, 8-5-69, Cl. 260-37.
Chandler, James Leon, to Cortland Industries, Inc. Fly leader for fly fishing line. 3,453,769, 7-8-69, Cl. 43-44.98
Chandler, Jasper S., to Eastman Kodak Company. Case for a projection screen. 3,469,899, 9-30-69, Cl. 350-123.
Chandler, John W., to Hempel's Marine Paints, Inc., mesne. Polymeric compositions and protective coatings. 3,442,824, 5-6-69, Cl. 260-2.
Chandler, Joseph A., to United States of America, National Aeronautics and Space Administration. Spacecraft radiator cover. 3,465,482, 9-9-69, Cl. 52-3.
Chandler, Joseph H., to Lockheed Aircraft Corporation. Protective shield for telescriber machines. 3,480,728, 11-25-69, Cl. 178-18.
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Chandler, Scott S.; and Ray, Charles L., to Armour Industrial Chemical Company, mesne. Coated dust free phosphate feed supplement. 3,468,667, 9-23-69, Cl. 99-2.
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Chaney, Donal W., to Harsco Corporation. Multiple axle system for vehicles. 3,458,213, 7-29-69, Cl. 280-104.5
Chaney, Donal W., to Harsco Corporation. Multiple axle system for vehicles. 3,473,820, 10-21-69, Cl. 280-104.5
Chaney, John L. Elastomeric ring-like members for biasing spectacle temples. 3,428,392, 2-18-69, Cl. 351-113.
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Chaney, Willard O., to Standard International Corporation, mesne. Method of securing an electrical component to a circuit board. 3,486,224, 12-30-69, Cl. 29-626.
Chang, Charles H., to GAF Corporation. Production of 2-amino-3-nitrobenzoic acid. 3,468,941, 9-23-69, Cl. 260-518.
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Chang, Leroy L.; and Esaki, Leo, to International Business Machines Corporation. Insulated-gate field effect transistor with nonplanar gate electrode structure for optimizing transconductance. 3,450,960, 6-17-69, Cl. 317-235.
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Chang, Wen-Hsuan, to PPG Industries, Inc.6,9 Dioxa-1-spiro [4.4] nonene in the killing of insects. 3,446,898, 5-27-69, Cl. 424-278.
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Chang, Wen-Hsuan; and Dowbenko, Rostyslaw, to PPG Industries, Inc. Vapor-liquid separation method for removing excess amine from electrodeposition bath. 3,448,017, 6-3-69, Cl. 203-92.
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Chang, Winston H., to General Electric Company. Molybdenum-base alloy. 3,447,921, 6-3-69, Cl. 75-176.
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Chang, Yu Ghyl, to Westinghouse Electric Corporation. Integrated complementary transistor structure with equivalent performance characteristics. 3,423,653, 1-21-69, Cl. 317-235.

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Chanowitz, Harry, to Clare, C. P., & Company. Apparatus for making pressurized reed switches. 3,421,874, 1-14-69, Cl. 65-155.
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Chapin, Judson K., Jr.; and Robinson, David W., to Grace, W. R., & Co. Method of thermally expanding vermiculite in a hot liquid and product prepared by said process. 3,459,531, 8-5-69, Cl. 71-62.
Chapin, Keith K.; and Alen, Paul R., to United Medical Laboratories, Inc. Differential slide maker. 3,470,847, 10-7-69, Cl. 118-100.
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Chaplais, Henri; Pillon, Lucien; Carre, Georges P.; Rips, Lucien; and Gambette, Rene, to Societe Anonyme France-Ecrans. Motion picture projector with oppositely positioned light sources. 3,423,152, 1-21-69, Cl. 352-115.
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Chapman, Charles C., to Phillips Petroleum Company. HF alkylation acid rerun system. 3,478,125, 11-11-69, Cl. 260-683.48
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Chapman, Everett. Hydraulic press. 3,450,035, 6-17-69, Cl. 100-214.
Chapman, Everett. Spark gap light source for impact photoelasticity. 3,475,646, 10-28-69, Cl. 315-59.
Chapman, Frank M.; and Chapman, Harry S., to Fluorodynamics, Inc. Method for covering large rolls and the like with films. 3,426,118, 2-4-69, Cl. 264-230.
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Chapman, John Dickinson; Dee, Geoffrey Thomas; Janikowski, Stanislaw Maria; and Peters, Roger Hugh, to Fisons Fertilizers Limited. Process for preparing melts comprising ammonium nitrate and phosphate. 3,449,107, 6-10-69, Cl. 71-36.
Chapman, Keith James; and Cosier, James Edwin Henry, to Postmaster General, Her Majesty's. Closure arrangements for apertures. 3,456,838, 7-22-69, Cl. 220-46.
Chapman, Richard D., to Monsanto Company. Process for destroying melt crystalline order in fiber-forming polymers. 3,475,527, 10-28-69, Cl. 264-176.
Chapman, Richard M.; and Yore, Donald M., to Bell, F. W., Inc. Magnetic reaction testing apparatus and method of testing utilizing semiconductor means for magnetic field sensing of an eddy-current-reaction magnetic field. 3,450,986, 6-17-69, Cl. 324-40.
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Chapman, Victor A., to Abelson Motors Limited. Stillages or like load-carrying appliances and vehicles for transporting same. 3,430,793, 3-4-69, Cl. 214-515.
Chapman, Welding G.; and Carlson, Rollin N., to Phillips Petroleum Company. Solvent purification and recovery by stripping and distillation. 3,462,347, 8-19-69, Cl. 203-6.
Chapman, William L., to Continental Oil Company. Compressed air, pressure-sensing actuator. 3,435,797, 4-1-69, Cl. 114-235.
Chappel, Raymond M.; Krishnan, Kamala S.; and Van Hise, Charles W., to American Standard, Inc. High temperature bonding to germanium. 3,465,421, 9-9-69, Cl. 29-494.
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A., to Monsanto Company. Polymer foams reinforced with glass or asbestos fibers and process of making same. 3,474,048, 10-21-69, Cl. 260-2.5
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Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A., to Monsanto Company. Polymer foams reinforced with polyamide, polyester and polycarbonate fibers formed during the foaming process. 3,474,050, 10-21-69, Cl. 260-2.5
Chappelear, David C.; Stolki, Thomas J.; Newman, Seymour; and Trementozzi, Quirino A., to Monsanto Company. Polymer foams reinforced with crystalline polyolefins. 3,474,051, 10-21-69, Cl. 260-2.5
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Chapsky, Jacob, to Lockheed Aircraft Corporation, mesne. Binary code data recorder system. 3,422,441, 1-14-69, Cl. 346-74.
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Charbonneau, Albert J., to General Electric Company. Holder for mounting removable fuse in electrical apparatus. 3,444,497, 5-13-69, Cl. 337-188.
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Charbonnier, Roger, to Societe d'Instrumentation Schlumberger. Insulating quadripoles. 3,439,180, 4-15-69, Cl. 307-17.
Charbonnier, Roger; and Estrabaud, Stephane, to Societe d'Instrumentation Schlumberger. Analog to digital converters. 3,480,949, 11-25-69, Cl. 340-347.
Charbonnier, Roger; and Picot, Clement, to Societe d'Instrumentation Schlumberger. Ultrasonic device for measuring the thickness of objects. 3,427,868, 2-18-69, Cl. 73-67.9
Charbonnier, Roger; and Royer, Jean. Thermally stabilized electronic assembly. 3,437,789, 4-8-69, Cl. 219-209.
Chardon, Felix A. Synchronous motor rotary indicator. 3,471,785, 10-7-69, Cl. 324-140.
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Charles, Daniel; and Duchet, Michel, to CSF-Compagnie Generale de Telegraphie Sans Fil. Image-translating device. 3,461,340, 8-12-69, Cl. 315-11.
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Clayton, Robert H., to International Telephone and Telegraph Corporation. Image dissector tube and optical system therefor. 3,448,210, 6-3-69, Cl. 178-7.2
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Cline, Harvey E., to General Electric Company. Process for producing cobalt-aluminum bodies. 3,429,697, 2-25-69, Cl. 75-170.
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Cline, Jack V. Food display package. 3,469,682, 9-30-69, Cl. 206-56.
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Close, Ross A. Automatic firearm. 3,424,053, 1-28-69, Cl. 89-185.
Close, Sam. Replaceable medium, extended area filter unit. 3,486,626, 12-30-69, Cl. 210-232.
Closmann, Philip J., to Shell Oil Company. Method of increasing the volume of a permeable zone within an oil shale formation. 3,478,825, 11-18-69, Cl. 166-36.

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Closs, George M.; and Dougherty, Patrick F., to Sun Oil Company. Storage of normally gaseous material in subterranean caverns. 3,464,219, 9-2-69, Cl. 62-45.
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Cloud, Charles E. Making individual condiment packages. 3,426,505, 2-11-69, Cl. 53-184.
Cloud, Charles E.; King, Richard G.; and George, James R., to Cloud Machine Corporation. Packaging machine. 3,478,492, 11-18-69, Cl. 53-266.
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Clough, Donald Keighley, to Sandoz Ltd., also known as Sandoz A.G. Dyeing of hydrophobic materials. 3,441,363, 4-29-69, Cl. 8-39.
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Clough, Thomas J., to Sinclair Research, Inc. Lubricating oil composition containing condensation product of polyamine and polymeric ketone. 3,479,291, 11-18-69, Cl. 252-51.5
Clough, Thomas J., to Sinclair Research, Inc. Polymeric additives for lubricating oil. 3,483,125, 12-9-69, Cl. 252-51.5
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Cloup, Francis Jean Gabriel, to Promat S. A. R. L. Combined punching and reaming tool. 3,469,306, 9-30-69, Cl. 29-564.
Cloup, Francis J. Hydraulic punching machine. 3,469,481, 9-30-69, Cl. 83-140.
Clover, Norvin Q., to Fairfield Industries, Inc. Telescoping collapsible platform support. 3,463,265, 8-26-69, Cl. 182-17.
Clovis, James Stanley, to Rohm & Haas Company. Antistatic plastic compositions. 3,454,540, 7-8-69, Cl. 260-86.1
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Cloyd, Harold S., to Nosco Plastics, Incorporated. Pallet container. 3,438,544, 4-15-69, Cl. 220-97.
Cloyd, Harold S.; Bernhardt, Charles A.; and Mangold, Robert T., to Nosco Plastics, Incorporated. Plastic case. 3,443,722, 5-13-69, Cl. 220-97.
Cluchey, Edgar C. Wheel alignment checking device. 3,460,264, 8-12-69, Cl. 33-203.17
Cluett, Peabody & Co., Inc.: *See—*
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Denault, Albert P.; Gruber, Lawrence H.; and Morton, Kenneth O., 3,478,939.
Pandell, Nestor W.; and Knebel, Robert W., 3,430,480.
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Cluett, Ronald D.; and Paget, Fredrick W., to Sylvania Electric Products Inc. Regulating system for arc discharge devices having means to compensate for supply voltage and load variations. 3,482,142, 12-2-69, Cl. 315-105.
Clukey, Wayne H.; Alboucq, Robert L.; and Clack, Alan V., to Kaiser Aluminum & Chemical Corporation. Carbon anode for aluminum reduction cell. 3,442,786, 5-6-69, Cl. 204-290.
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Clyborne, Willis D. Engine ignition system. 3,472,216, 10-14-69, Cl. 123-148.
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Clymer, Roger B. Houseboat. 3,434,166, 3-25-69, Cl. 9-1.
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Clynch, Frank, to Continental Oil Company. Apparatus for supporting marine seismic transducer. 3,452,327, 6-24-69, Cl. 340-7.
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Coad, Brian C., to Texas Instruments, Incorporated. Manufacture of interiorly coated tubing. 3,457,626, 7-29-69, Cl. 29-429.
Coad, Brian C., to Texas Instruments, Incorporated. Continuous chill casting of cladding on a continuous support. 3,470,939, 10-7-69, Cl. 164-275.
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Coad, Terrence M., to Snaplite Displays, Inc. Illuminated display sign. 3,447,253, 6-3-69, Cl. 40-130.
Coakley, James L., to Abex Corporation. Solenoid controlled servovalve with lineal output. 3,424,183, 1-28-69, Cl. 137-83.
Coakley, James L., to Abex Corporation. Electromechanical driver for hydraulic valve and the like. 3,473,547, 10-21-69, Cl. 137-83.
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Coates, Carlton E., to Ashland Oil & Refining Company. Electrophoretic coating bath and process wherein solvent and base concentrations are controlled. 3,463,712, 8-26-69, Cl. 204-181.
Coates, Harold; Brown, David Albert; and Peters, Francis Michael, to Electric Reduction Company of Canada Ltd. Silicate resins. 3,429,851, 2-25-69, Cl. 260-46.5
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Coats, Carlton E., to Ashland Oil & Refining Company. Electrocoating compositions comprising aromatic amine amidated drying oil copolymer-maleic anhydride adducts. 3,428,589, 2-18-69, Cl. 260-23.7
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Cobaugh, George D.; Smoot, Thomas William; and Cobaugh, George D., to Dresser Industries, Inc. Lining for secondary ammonia reformer. 3,449,084, 6-10-69, Cl. 23-277.
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Cobaugh, Robert Franklin, to AMP Incorporated. Tool for making electrical connections having insulation scraping means. 3,471,916, 10-14-69, Cl. 29-203.
Cobb, James Stanley, Jr., to Du Pont de Nemours, E. I., and Company. Spinneret. 3,456,292, 7-22-69, Cl. 18-8.
Cobb, James W., to AEL Development and Research, Inc. Process and machinery for making paper sticks. 3,452,650, 7-1-69, Cl. 93-1.
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Cobbledick, David S., to Allied Chemical Corporation. Novel organic polyol compositions and filled non-cellular polyurethanes prepared therefrom. 3,429,855, 2-25-69, Cl. 260-77.5
Cobbledick, David S., to Allied Chemical Corporation. Novel polyol compositions and filled polyurethanes prepared therefrom. 3,470,121, 9-30-69, Cl. 260-18.
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Cock, Donald J.; and Habgood, Gordon A., to Girling, Limited. Means for actuating a friction pad in a disc brake. 3,435,691, 4-1-69, Cl. 74-107.
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Cockerell, Christopher Sydney, to Hovercraft Development Limited. Vehicles for travelling over land and/or water having recirculating fluid curtains. 3,442,348, 5-6-69, Cl. 180-130.
Cockerham, Lloyd E., to Commercial Solvents Corporation. Ternary solvent system containing 2-nitropropane for flexographic inks. 3,450,663, 6-17-69, Cl. 260-33.4
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Codman, Daniel S., Jr. Convertible boat hull. 3,475,773, 11-4-69, Cl. 9-1.
Codrington, Robert S.; and Schuster, Nick A., to Schlumberger Technology Corporation, mesne. Detection of oil by nuclear magnetic resonance. 3,456,183, 7-15-69, Cl. 324-0.5
Cody, Joseph P.; and Walker, Dale W., to United States of America, Navy. Portable impact pad. 3,456,910, 7-22-69, Cl. 244-114.
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Cook, John M., to Grace, W. R., & Co. Flexible film wrapper. 3,429,717, 2-25-69, Cl. 99-171.
Cook, John W., to Westinghouse Electric Corporation. Large drive positioning control. 3,487,283, 12-30-69, Cl. 318-443.
Cook, Kenneth A.; and Wood, Harold R., to International Business Machines Corporation. Stacking device. 3,452,983, 7-1-69, Cl. 271-87.
Cook, Kenneth C.: *See—*
Lindberg, John E.; Cook, Leslie J.; and Cook, Kenneth C.,3,485,101.
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Cook, Lloyd A. Dump vehicle with fluid-slide unloading system. 3,481,647, 12-2-69, Cl. 298-24.
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Nopper, Willard N., 3,454,128.
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Cook, Loveda; and Farhi, Victor N. Tipping guard for use with a perforated head covering. 3,468,318, 9-23-69, Cl. 132-9.
Cook, Lucien H.; and Atkin, Sydney, to Chemical Construction Corporation. Manufacture of free flowing fertilizer product by coating granules with urea- formaldehyde from an alkaline solution. 3,477,842, 11-11-69, Cl. 71-28.
Cook, Marvin E. Brake releasing device for a railway air brake system. 3,480,337, 11-25-69, Cl. 303-73.
Cook, Melvin A.; Udy, Lex L.; and Clay, Robert B., to Intermountain Research and Engineering Company, Inc. Slurry blasting composition containing sulfur and having high sodium nitrate content. 3,473,983, 10-21-69, Cl. 149-41.
Cook, Melvin A.; and Ursenbach, Wayne O. Explosive composition containing an additional product of urea and nitric acid and method of preparing same. 3,457,127, 7-22-69, Cl. 149-46.
Cook, Melvin S., to Holobeam, Inc. Apparatus for and method of measuring length. 3,438,032, 4-8-69, Cl. 343-12.
Cook, Nathan H.; and Vaughn, Robert L., to Lockheed Aircraft Corporation. Method of machining metals and apparatus therefor. 3,424,054, 1-28-69, Cl. 90-11.
Cook, Newell C., to General Electric Company. Hydropyridines, triorganosilyl hydropyridines, and process for their preparation. 3,466,270, 9-9-69, Cl. 260-88.3
Cook, Newell C., to General Electric Company. Process for zirconiding and hafniding base metal compositions. 3,479,158, 11-18-69, Cl. 29-194.
Cook, Newell C., to General Electric Company. Process for titaniding base metals. 3,479,159, 11-18-69, Cl. 29-194.
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Cook, Paul M., to Raychem Corporation. Irradiated article. 3,455,337, 7-15-69, Cl. 138-178.
Cook, Paul M. Tube driving apparatus. 3,474,870, 10-28-69, Cl. 173-91.
Cook, Peter. Ignition system. 3,476,098, 11-4-69, Cl. 123-148.
Cook, Ralph J.; and Moline, Clifford C., to Products Research & Chemical Corporation. Dispensing cartridge for intermixing separate ingredients. 3,475,010, 10-28-69, Cl. 259-47.
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Cook, Robert E., to Jenkins Equipment Company, Inc. Method of making a rotary brush. 3,442,555, 5-6-69, Cl. 300-21.

Cook, Robert E. Combined necklace and wristband including loop shortening means. 3,481,155, 12-2-69, Cl. 63-2.
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Cook, Ronald Alan, to Ford Motor Company. Clutch with release levers. 3,439,789, 4-22-69, Cl. 192-70.3
Cook, Rufus Lee, to United States of America, Navy. Broadband power amplifier. 3,436,676, 4-1-69, Cl. 330-117.
Cook, Rufus Lee; and Whatley, Lucius D., Jr., to United States of America, Navy. Double serrated crystal transducer. 3,470,394, 9-30-69, Cl. 310-8.
Cook, Rufus L.; and Bealor, Jesse L., Jr., to United States of America, Navy. Variable focus electroacoustic transducer. 3,474,402, 10-21-69, Cl. 340-9.
Cook, Russell P., to Polaroid Corporation. Abrasion of the outer surfaces of film supports and rupturable containers to reduce blocking. 3,424,584, 1-28-69, Cl. 96-76.
Cook, Sam P., to Shell Oil Company. Optical acoustic seismic model. 3,484,739, 12-16-69, Cl. 340-15.5
Cook, Samuel Pinckney, to Shell Oil Company. Spatial filtering system utilizing reflection optics. 3,438,693, 4-15-69, Cl. 350-162.
Cook, Samuel P., to Shell Oil Company. Producing acoustic holograms. 3,484,740, 12-16-69, Cl. 340-15.5
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Cooke, Brian Alfred; and Gourlay, George, to Imperial Chemical Industries Limited. Ion-exchange material from halogenated polyethylene. 3,433,755, 3-18-69, Cl. 260-2.2
Cooke, Claude E., Jr., to Esso Production Research Company. Miscible displacement oil recovery process. 3,446,282, 5-27-69, Cl. 166-9.
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Cooke, Conrad Reginald. Synchro receiver responsive to the relative movement between two gratings. 3,441,741, 4-29-69, Cl. 250-237.
Cooke, Edward A.; and Carter, William H., to United States of America, Army. Firing pressure activation system for fuzes and components. 3,450,046, 6-17-69, Cl. 102-70.2
Cooke, Frank, to Pass, E., & Company Limited. Pipeline pluggers. 3,463,195, 8-26-69, Cl. 138-94.
Cooke, George H.; and Carl, William J. Vegetable trimmer. 3,452,794, 7-1-69, Cl. 146-108.
Cooke, Gordon Noel; Hall, Henry Patrick; and Lister-Kaye, John Christopher Lister, to Soil Fertility Limited. Method and apparatus for indicating the extent of land subjected to an agricultural operation. 3,481,545, 12-2-69, Cl. 239-172.
Cooke, Reginald Benjamin William, to International Standard Electric Corporation. Method of making an electrical assembly. 3,478,425, 11-18-69, Cl. 29-624.
Cooke, Robert R.; and Roudebush, Richard M., to Procter & Gamble Company, The. Cocoa-flavored liquid oil compositions. 3,433,649, 3-18-69, Cl. 99-118.
Cooke, William Ernest; Smits, Paul; and Cote, Jacques Francois, to Aluminium Laboratories Limited. Process and apparatus for continuous anodic treatment. 3,471,375, 10-7-69, Cl. 204-28.
Cooke-Yarborough, Edmund Harry; and Gibbons, Peter Edwin, to United Kingdom Atomic Energy Authority. Opto-electronic logic element. 3,461,297, 8-12-69, Cl. 250-213.
Cookney, Ernest W., to Dorr-Oliver Incorporated. Torsion bar skimmer. 3,465,887, 9-9-69, Cl. 210-525.
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Cooksey, William Harold, to Lucas, Joseph, (Industries) Limited. Ignition distributor adjustable from the exterior of the casing. 3,461,253, 8-12-69, Cl. 200-22.
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Cooley, Gerald J.; Cormier, Thomas E.; and Sipple, Peter A., to Air Products and Chemicals, Inc. Refrigerated underground transmission line and process. 3,463,869, 8-26-69, Cl. 174-15.
Cooley, Henry A. Automotive cooling system flushing device. 3,435,847, 4-1-69, Cl. 137-612.1
Cooley, John A. Method of producing a ceramic gapped ceramet tape head. 3,425,120, 2-4-69, Cl. 29-603.
Cooley, Warren K.; and Mease, Ralph T., to Caled Products Company, Inc. Methods of treating used dry cleaning solvents. 3,452,110, 6-24-69, Cl. 260-654.
Cooley, William C., to Exotech Incorporated. Hypervelocity jet and projectile velocity augmenter. 3,465,639, 9-9-69, Cl. 89-8.
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Cooley, William C., to Exotech Incorporated. Hypervelocity jet producing system employing an impact cumulation process. 3,468,481, 9-23-69, Cl. 239-101.
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Cooley, William H.; and Allison, Kenneth C. Light sensitive coating for light transmitting body. 3,466,216, 9-9-69, Cl. 161-5.
Cooley, William H.; Allison, Kenneth C.; and Colburn, William. Heat and light glare reducing composition for glass. 3,466,181, 9-9-69, Cl. 106-189.
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Cooper, Brian Frederick, to English Electric Valve Company Limited. Microwave tube cathode of the barium-calcium aluminate type. 3,441,781, 4-29-69, Cl. 313-346.

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Cooper, Daniel Waumsley, to G.Q. Parachute Company Limited. Means for lowering loads. 3,480,108, 11-25-69, Cl. 182-133.
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Cooper, David J., to Schering Corporation. Alkyl glycosides derived from gentamicin. 3,470,149, 9-30-69, Cl. 260-210.
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Cooper, Harry Christopher, to A.P.V. Company Limited, The. Arrangements for in-place cleaning. 3,435,834, 4-1-69, Cl. 134-98.
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Cooper, James N., 1/3 to Hurvitz, Hyman. Magnetic tape editing machine. 3,459,901, 8-5-69, Cl. 179-100.2
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Cooper, Joseph H.; and Klein, Oscar J. C., to Du Pont de Nemours, E. I., and Company. Process for oxidizing dihydroquinacridones to quinacridones. 3,475,436, 10-28-69, Cl. 260-279.
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Coshow, Chester L. Spinning reel depth-gauging means. 3,465,982, 9-9-69, Cl. 242-84.2
Cosier, James Edwin Henry: *See—*
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Coslowsky, Marion M. Automatic snow melter. 3,484,961, 12-23-69, Cl. 37-14.
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Coss, Raymond L. Orthopedic traction appliance. 3,431,904, 3-11-69, Cl. 128-85.
Coss, Raymond L. Traction device. 3,461,864, 8-19-69, Cl. 128-85.
Coss, Ronald G., to Standard Pneumatic Motor Company. Control mechanism for power hand tools or instruments. 3,430,710, 3-4-69, Cl. 173-169.
Coss, Ronald G., to Standard Pneumatic Motor Company. Power transmitting mechanism for attachments for surgical turbines. 3,443,448, 5-13-69, Cl. 74-209.
Cossar, Bernard C.: *See—*
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Costa, Armando; and Cerutti, Giovanni, to Olivetti, Ing., C., & C. S.p.A. Bidirectional step by step feeding device for a record support, for example a punched tape. 3,435,692, 4-1-69, Cl. 74-125.5
Costa, Fulvio: *See—*
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Costa, Philip J.: *See—*
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Costa, Philip J., to Caterpillar Tractor Company. Brushless direction and speed sensing transducer. 3,445,697, 5-20-69, Cl. 310-68.
Costa, Roberto Maria; and Codignola, Franco, to Societa Italiana Resine S.p.A. Method of drawing polyacrylonitrile containing fibres. 3,449,485, 6-10-69, Cl. 264-182.
Costantini, Adelmo, to Lawler Automatic Controls, Inc. Valve assembly. 3,485,371, 12-23-69, Cl. 210-135.
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Levine, Eli; and Costanza, John R.,3,423,353.
Costanza, John R.; and Dunay, Michael, to Celanese Corporation. Sanitary products. 3,480,016, 11-25-69, Cl. 128-284.
Costanzo, Kathryn N. Animal deodorizing collar attachment. 3,477,409, 11-11-69, Cl. 119-106.
Costanzo, Nicholas Joseph, Jr., to Aluminum Plastic Products Corporation. Metal grating. 3,420,015, 1-7-69, Cl. 52-180.
Costanzo, Raphael Joseph. Sleeping bag and heater therefor. 3,427,431, 2-11-69, Cl. 219-212.
Costas, Nicholas J. Disposable coffee cartridge. 3,420,675, 1-7-69, Cl. 99-77.1
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Costello, Alfred P. Package valve. 3,432,087, 3-11-69, Cl. 229-62.5
Costello, Bernard James, to Western Electric Company, Incorporated. Soldering with radiant energy. 3,457,386, 7-22-69, Cl. 219-85.
Costello, Bernard J., to Argus Engineering Company. Soldering apparatus. 3,469,061, 9-23-69, Cl. 219-85.
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Costich, Verne R., to Spectra-Physics, Inc. Optical resonator apparatus. 3,487,230, 12-30-69, Cl. 307-88.3
Costin, Robert W., to Coach and Car Equipment Corporation. Assembly for vertical adjustment of seat cushion. 3,473,776, 10-21-69, Cl. 248-419.
Coston, Otis D. Electric power bypass system and connectors for reconversion of rural electric service systems. 3,422,281, 1-14-69, Cl. 307-147.
Cosyns, Jean; Derrien, Michel; and Le Page, Jean Francois, to Institut Francais du Petrole des Carburants et Lubrifiants. Catalytic hydrogenation of diolefins. 3,472,763, 10-14-69, Cl. 208-255.
Cosyns, Jean; and Le Page, Jean-Francois, to Institut Francais du Petrole des Carburants et Lubrifiants. Process for the selective hydrogenation of hydrocarbon mixtures. 3,471,400, 10-7-69, Cl. 208-255.
Cote, Charles E.: *See—*
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Cote, James A.; Ferrington, Thomas E.; and Gregorian, Razmic S., to Grace, W. R., & Co. Vinyl chloride polymer compositions. 3,463,765, 8-26-69, Cl. 260-85.5
Cote, Louis E., to General Dynamics Corporation. D. C. motor speed control system. 3,428,881, 2-18-69, Cl. 318-341.
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Cothran, Otis J. Electrolytic apparatus for removing metals from solutions. 3,450,622, 6-17-69, Cl. 204-234.
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Cotta, Ernesto; Grein, Arpad; and Spalla, Celestino, to Societa Farmaceutici Italia. Microbiological process for preparing aminosidine. 3,454,469, 7-8-69, Cl. 195-80.
Cotta, Ezio D.; and Ford, Vernon E., to Polaroid Corporation. Exposure control apparatus. 3,468,237, 9-23-69, Cl. 95-63.
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Cottam, Ronald Geoffrey; and Topham, Alan Roger, to Imperial Chemical Industries Limited. Electro chemical apparatus. 3,464,911, 9-2-69, Cl. 204-220.
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Cotter, Howard E.; and Barth, Jay E. Center-feed spreader. 3,441,224, 4-29-69, Cl. 239-656.
Cotter, Howard E.; and Barth, Jay E. Mixer assembly for wide-path spreader of granular materials. 3,441,225, 4-29-69, Cl. 239-683.
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Cotter, Robert J.; Apel, Francis N.; and Conte, Louis B., Jr., to Union Carbide Corporation. Polycarbonates of the bisphenol of cyclohexadiene. 3,461,098, 8-12-69, Cl. 260-47.
Cotter, William L.; and Reiss, Martin H., to Vandalarm Security Systems, Inc. Sound responsive intruder detection circuit. 3,471,846, 10-7-69, Cl. 340-258.
Cotterman, Robert W., to International Telephone and Telegraph Corporation. Detection of electromagnetic radiation from nuclear explosions. 3,467,826, 9-16-69, Cl. 250-83.3
Cottignies, Stanislas, to Commissariat a l'Energie Atomique. Device for detecting radioactive contamination of a surface. 3,428,808, 2-18-69, Cl. 250-83.6
Cottingham, Robert A., to Budd Company, The. Extruding molding compounds. 3,461,490, 8-19-69, Cl. 18-13.
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West, Ernest; Cotton, Ivan C.; Challenger, Frederick R.; and Cotton, Ivan C.,3,449,930.
Cotton, James F.; and Heard, Maurice E., to West Point-Pepperell, Inc. Aldehyde fixation on polymeric material. 3,420,696, 1-7-69, Cl. 117--118
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Bennett, Royston Henry; and Cottrell, David Walter,3,453,338.
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Cottrell, Harold L. Variable hydraulic transmission and control. 3,455,110, 7-15-69, Cl. 60-54.
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Couch, Virgil R., Jr., 95% to Couch Industries, Inc., and 5% to Ray, Henry T. Layered heat exchanger with interlocking header plates. 3,472,316, 10-14-69, Cl. 165-153.
Couche, Raymond Arthur. Wool scouring process. 3,441,368, 4-29-69, Cl. 8-139.1
Coudray, Michel, to Societe Indatom. Nuclear reactor pressure vessel. 3,424,239, 1-28-69, Cl. 165-136.
Coudriet, Raymond T., to Chrysler Corporation. Engine coolant flow control valve. 3,485,448, 12-23-69, Cl. 236-34.
Couey, Neal B. Car theft prevention apparatus. 3,443,546, 5-13-69, Cl. 116-81.
Couget, Jacques. Window wiper for motor vehicles. 3,448,480, 6-10-69, Cl. 15-250.
Cougoule, Robert L., to Litton Precision Products, Inc. Microwave oven. 3,430,022, 2-25-69, Cl. 219-10.55
Cougoule, Robert L., to Litton Precision Products, Inc. Microwave oven having a mode stirrer located within the waveguide. 3,439,143, 4-15-69, Cl. 219-10.55
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Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L., to General Electric Company. Data processing unit for executing commands by external apparatus. 3,471,834, 10-7-69, Cl. 340-172.5

Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L., to General Electric Company. Data processing unit for providing sequential memory access and record thereof. 3,473,154, 10-14-69, Cl. 340--1725

Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L., to General Electric Company. Apparatus providing access to storage device on priority-allocated basis. 3,473,155, 10-14-69, Cl. 340-172.5

Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L., to General Electric Company. Data processing unit for providing sequential memory access and record thereof under control of external apparatus. 3,473,156, 10-14-69, Cl. 340-172.5

Couleur, John F.; Gudenschwager, Philip F.; Shelly, William A.; and Bahrs, David L., to General Electric Company. Data processing unit for providing command selection by externals apparatus. 3,478,320, 11-11-69, Cl. 340-172.5

Couleur, John F.; and Ruth, Richard L., to General Electric Company. Data processing system including means for detecting illegal actions and generating codes in response thereto. 3,478,324, 11-11-69, Cl. 340-172.5

Coulman, William J. T., to Lubrizol Corporation, The. Method of and composition for preventing 'white rust' formation. 3,477,882, 11-11-69, Cl. 148-6.16

Coulombe, Lionel J., to Singer Company, The. Throat plate raising attachments for sewing machines. 3,440,987, 4-29-69, Cl. 112-260.

Coulombe, Lionel J., to Singer Company, The. Cam removing device for a sewing machine. 3,457,887, 7-29-69, Cl. 112-158.

Coulson, David F. Freight transportation equipment for railway cars. 3,486,467, 12-30-69, Cl. 105-368.

Coulson, Samuel Howard, to Geigy Chemical Corporation. Polypropylene of enhanced impact strength. 3,466,257, 9-9-69, Cl. 260-30.6

Coulter, Albert George; and English, Brian Box, to Ferranti, Limited. Character transmission and reproduction systems. 3,484,550, 12-16-69, Cl. 178-30.

Coulter, Albert L. Check valve. 3,457,949, 7-29-69, Cl. 137-543.21

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Coulter, David C., to Melpar, Inc. Speech synthesizer having Q multiplier. 3,423,530, 1-21-69, Cl. 179-1.

Coulter, Earl E.; Johnson, Lowell E.; and Modrak, Thomas M., to Babcock & Wilcox Company, The. Vapor and liquid drum including cyclone separator. 3,435,598, 4-1-69, Cl. 55-424.

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Coulter, Erle C., to Decar Plastic Corporation, mesne. Closet structure. 3,421,275, 1-14-69, Cl. 52-241.

Coulter, James Lee, to General Motors Corporation. Fluid flow control valve. 3,482,595, 12-9-69, Cl. 137-539.

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Coulter, Wallace H.; and Hogg, Walter R., to Coulter Electronics, Inc. Multiple aperture fittings for particle analyzing apparatus. 3,444,464, 5-13-69, Cl. 324-71.

Council, Bill E.; and Woods, Warren W., to Continental Oil Company. Lubricant composition and method of using same. 3,438,896, 4-15-69, Cl. 252-12.

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Countryman, Albert J.; and Cogar, George R., to Mohawk Data Sciences Corporation. Printed circuit assembly apparatus. 3,426,415, 2-11-69, Cl. 29-203.

Counts, William E.; and Bruhl, Donald A., Jr., to Beckman Instruments, Inc. Cermet resistance element. 3,479,216, 11-18-69, Cl. 117-227.

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Couper, Monroe: *See*—
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Coupette, Werner, to Standard-Messo Duisburg Gesellschaft fur Chemie- Technik mbH & Co. Apparatus for vacuum treating liquid steel according to the circulation method. 3,479,022, 11-18-69, Cl. 266-34.

Coupland, Keith, to Orobis Limited, mesne. Process for the production of overbased alkyl phenates suitable for use in lubricant additives. 3,437,595, 4-8-69, Cl. 252-42.7

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Couris, Alexander. Drive assembly. 3,430,509, 3-4-69, Cl. 74-413.

Cournoyer, George R., to USM Corporation. Roll positioning mechanism. 3,479,951, 11-25-69, Cl. 100-170.

Cournoyer, George R.; and Hold, Peter, to Farrel Corporation. Driven controlled deflection roll. 3,481,016, 12-2-69, Cl. 29-116.

Cournoyer, Hector S., to Grooming Developers, Inc., mesne. Hair-styling tool. 3,481,345, 12-2-69, Cl. 132-145.

Cours, Donald V.; McGee, John K.; and Lafferty, Harold L., to Gray Tool Company. Pipe lining apparatus. 3,462,821, 8-26-69, Cl. 29-200.

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Courte, Jacques, to Soletanche. Method for interconnecting successive sections of walls and partitions cast in the ground. 3,422,627, 1-21-69, Cl. 61-35.

Courter, Jack P., to Boeing Company, The. Cargo loading mechanism. 3,478,904, 11-18-69, Cl. 214-75.

Courter, Leo A., to Dow Chemical Company, The. Packer for well treatment. 3,436,084, 4-1-69, Cl. 277-116.2

Courtier, Armand Jean, to Produits Chimiques Pechiney-Saint-Gobain. Procedure for the preparation of olefin oxides. 3,455,797, 7-15-69, Cl. 204-80.

Courtney, Donald L., to Atlas Chemical Industries, Inc. Hair grooming aid. 3,458,624, 7-29-69, Cl. 424-71.

Courtney-Pratt, Jeofry S.; and Hargrove, Logan E., to Bell Telephone Laboratories, Incorporated. Optical information transmission system. 3,435,230, 3-25-69, Cl. 250-199.

Courtois, Peter D.; and Ericksson, George J., to Superior Concrete Accessories, Inc. Anchor insert and pick-up unit therefor. 3,420,014, 1-7-69, Cl. 52-173.

Courtois, Peter D.; and Eriksson, George J., to Superior Concrete Accessories, Inc. Anchor insert and pickup unit for a concrete slab. 3,431,012, 3-4-69, Cl. 294-86.

Courtot, Louis B.; and Gibson, Willard C., to Textron Inc., mesne. Lock type excess flow valve. 3,469,605, 9-30-69, Cl. 137-630.

Courtot, Louis B.; Jeromsom, James R., Jr.; and Morse, Philip W., to Weatherhead Company, The. Hose coupling having clamp positioning means. 3,463,517, 8-26-69, Cl. 285-93.

Courtot, Louis B.; and Mack, Thomas J., to Weatherhead Company, The. Composite forged fitting of diverse metals. 3,442,537, 5-6-69, Cl. 285-174.

Courtot, Pierre Albert, to Centre Technique des Industries de la Fonderie. Thermostatically controlled governor valves. 3,448,922, 6-10-69, Cl. 236-93.

Courvoisier, Pierre; and Lambert, Irma, to Commissariat a l'E ergie Atomique.Process of isotopic enrichment by bithermal exchange NH_3-H_2. 3,464,789, 9-2-69, Cl. 23-193.

Cousar, James F., to Dow Chemical Company, The. Multiple compartmented container. 3,459,295, 8-5-69, Cl. 206-47.

Cousin, Maurice; Klein, Robert; Loiselet, Yves; and Sonet, Gilbert, to Societe Generale de Constructions Electriques et Mecaniques (ALSTHOM). High speed protective circuit for regulating transistors. 3,456,125, 7-15-69, Cl. 307-202.

Cousin, Michel: *See*—
Brion, Jacques; Cousin, Michel; Talejkinski, Wulf; and Volk, Andre,3,479,800.

Cousin, Philippe; and Roche, Rene, to Commissariat a l'Energie Atomique. Method and apparatus for the physical separation of the components of a binary mixture. 3,425,812, 2-4-69, Cl. 23-326.

Cousino, Ralph E., to Orrtronics, Inc. Endless magnetic tape cartridge. 3,420,461, 1-7-69, Cl. 242-55.19

Cousino, Ralph E., to Orrtronics, Inc. Tape cartridge. 3,420,463, 1-7-69, Cl. 242-55.19

Cousins, Richard C.: *See*—
Bunch, Russell W.; and Cousins, Richard C.,3,447,222.

Cousins, Richard C.; Cooley, Eugene A.; Worstell, Wayne C.; and Eaton, James L., to Albina Engine and Machine Works, Inc. Positionable vehicle. 3,424,272, 1-28-69, Cl. 182-16.

Cousserans, Gilbert: *See*—
Pomot, Jean; Amanrich, Robert; and Cousserans, Gilbert,3,458,508.

Cousserans, Gilbert; and Amanrich, Robert, to Office National Industriel de L'Azote. Extraction of wet process phosphoric acid using organic sulfoxides. 3,438,746, 4-15-69, Cl. 23-312.

Cousteau, Jacques Yves; and Gagnan, Emile, to La Spirotechnique. Device for discharging the gases exhaled by the wearer of a respiratory apparatus. 3,480,011, 11-25-69, Cl. 128-142.2

Coutant, Andre; and Mathot, Jacques, to Eclair International, Societe Anonyme. Film moving mechanism of motion-picture apparatus. 3,434,640, 3-25-69, Cl. 226-57.

Coutant, Robert W., to United States of America, Air Force. Preparation of triphenyl (biphenylyl) silanes. 3,465,017, 9-2-69, Cl. 260-448.2

Coutilish, George P., to General Motors Corporation. Toggle clamp. 3,480,271, 11-25-69, Cl. 269-228.

Couturier, Georges; and Gauthier, Charles, to Crylor. Apparatus for the layering of tow. 3,423,807, 1-28-69, Cl. 28-21.

Couvreur, Michel Joseph. Logic adaptive process and system for the automatic control of the production of power in interconnected electric networks. 3,465,164, 9-2-69, Cl. 307-57.

Coval, Robert A.; and Schade, Charles W., to General Motors Corporation. Batteries of electrochemical cells containing electrolyte metering tubes. 3,421,996, 1-14-69, Cl. 204-255.

Coveney, Howard W. Cosmetic fingernail mask assembly. 3,461,885, 8-19-69, Cl. 132-88.5

Coventry Gauge & Tool Company Limited: *See*—
Davidson, John Bruce, 3,444,971.
Davidson, John Bruce, 3,484,816.

Cover, James A., to Harsco Corporation. Tailgate apparatus. 3,440,764, 4-29-69, Cl. 49-280.

Cover, Ralph. Washing and screening apparatus. 3,454,162, 7-8-69, Cl. 209-269.

Cover, Ralph; and Kemper, Clyde A., to United Company, The. Can shaking device. 3,427,004, 2-11-69, Cl. 259-59.

Coverstone, Stephen L.; and Hughes, Raymond K. Sewn closure square bottom bag. 3,473,724, 10-21-69, Cl. 229-58.

Covert, Eugene E., to Hercules Incorporated. Apparatus for regulating the power output of an MHD generator. 3,482,123, 12-2-69, Cl. 310-11.

Covert, Paul W., to Magnetics, Inc. Direct current measurement apparatus. 3,430,142, 2-25-69, Cl. 324-117.

Covert, Thomas H., to Aerojet-General Corporation. Method and apparatus for simultaneous testing of containers for ability to withstand internal pressurization and for fluid leakage. 3,465,572, 9-9-69, Cl. 73-49.2

Covertine, Frank: *See*—
Freed, Arnold; and Covertine, Frank,3,435,994.

Covey, Ivan. Portable cooking and heating device. 3,478,734, 11-18-69, Cl. 126-44.

Covey, Rupert A.; Smith, Allen E.; and Hubbard, Winchester L., to Uniroyal, Inc. Method of protecting plants with sulfurous acid organic esters. 3,463,859, 8-26-69, Cl. 424-303.

Covey, Rupert A.: *See*—
von Schmeling, Bogislav; and Covey, Rupert A.,3,428,734.

Coviello, Gino J., to Sylvania Electric Products, Inc. Suppression of strong interfering signals in a radio receiver. 3,478,268, 11-11-69, Cl. 325-65.

Covill, Dennis H., to E.M.I.-Cossor Electronics Limited. Interrogating apparatus for determining the optimum frequency for radio communication. 3,475,684, 10-28-69, Cl. 325-67.

Covill, Dennis H., to E.M.I.-Cossor Electronics Limited. Interrogating apparatus for determining optimum frequency for radio communication. 3,475,685, 10-28-69, Cl. 325-67.

Covington, Charles H. Air circulating means for a patio table and umbrella therefor. 3,444,799, 5-20-69, Cl. 98-1.

Cow & Gate Limited: *See*—
Charles, George K., 3,446,690.
Robertson, George M.; and Charles, George K., 3,468,026.

Cowal, Alexander R.; Sams, Gary L.; and Sollie, William H. Device for operating switches. 3,438,662, 4-15-69, Cl. 287-104.

Cowan, Arnold A., to Bobrick Corporation, The, mesne. Recessed washroom dispenser and method of installing the same. 3,432,217, 3-11-69, Cl. 312-242.

Cowan, Arnold A., to Bobrick Corporation, The, mesne. Balanced shutoff valve. 3,469,818, 9-30-69, Cl. 251-129.

Cowan, Charles V. Easel clip. 3,427,695, 2-18-69, Cl. 24-259.

Cowan, Claude Isaac, to Elliott Brothers (London) Limited. Analogue digital converters. 3,425,054, 1-28-69, Cl. 340-347.

Cowan, George R.: *See*—
Bergmann, Oswald R.; Buchwald, Joseph; and Cowan, George R.,3,439,408.

Cowan, Gerald de G., to Automation Industries, Inc. Ultrasonic search wheel assembly. 3,442,119, 5-6-69, Cl. 73-67.5

Cowan, Gerald de G.; and Munger, Donald W., to Automation Industries, Inc. Ultrasonic nondestructive tester including means for separating electrical noise from the electrical signals. 3,482,434, 12-9-69, Cl. 73-67.8

Cowan, Jack C.; Beasley, Augustus Earl, Jr.; Jordan, John W.; Finlayson, Claude Malcolm; and Sterns, Robert O., to National Lead Company. Dispersion process and composition. 3,425,953, 2-4-69, Cl. 252-363.5

Cowan Pressroom Products, Inc.: *See*—
Nettleman, John B., 3,430,560.

Cowan, Robert N., to Westinghouse Electric Corporation. Universal expandable winding mandrel. 3,458,150, 7-29-69, Cl. 242-72.

Cowan, Stuart C. Baby environment simulator. 3,419,923, 1-7-69, Cl. 5-348.

Cowan, William C., 50% to Rees Burner & Blow Pipe Co. Industrial burner system. 3,472,184, 10-14-69, Cl. 110-7.

Cowans, Kenneth W., to Hughes Aircraft Company. Cryogenic refrigerator adapted to miniaturization. 3,423,948, 1-28-69, Cl. 62-6.

Cowans, Kenneth W., to Hughes Aircraft Company. Cryogenic refrigerator arrangement. 3,469,409, 9-30-69, Cl. 62-6.

Cowdin, Lloyd D. Fluid control valve. 3,451,430, 6-24-69, Cl. 137-625.69

Cowell, Clifton Douglas; and Tyler, Geoffrey James, to British Nylon Spinners Limited. N-alkyl substituted polyamide elastomers. 3,485,805, 12-23-69, Cl. 260-78.

Cowell, Robert L.; and May, Richard L., to Mattel, Inc. Means for automatically actuating an animating device in an oscillating toy. 3,475,856, 11-4-69, Cl. 46-232.

Cowell, Terence K., to Brooke, Godfrey. Skin resistance reaction time testing apparatus. 3,468,302, 9-23-69, Cl. 128-2.1

Cowin, William Alan; and Carter, Ronald Philip, to English Electric Company Limited, The. Electrical signal phase comparator. 3,469,196, 9-23-69, Cl. 328-133.

Cowles, Charles Donald, to Perkin-Elmer Corporation, The. Transports for elongated material. 3,434,639, 3-25-69, Cl. 226-21.

Cowles Chemical Company: *See—*
Bohman, Wenzel L., 3,457,124.
Shaver, Richard C., 3,471,253.

Cowles, Craig H., to Aluminum Specialty Company. Electrostatic coating device. 3,476,082, 11-4-69, Cl. 118-635.

Cowles, David H. Lathe attachment. 3,434,384, 3-25-69, Cl. 90-11.

Cowles, John H., to Torrington Company, The. Bearing seals for drawn cup bearings. 3,423,140, 1-21-69, Cl. 308-187.2

Cowles, John H.; and Rollins, James W., to Torrington Company, The. Method and apparatus for rolling bearing races. 3,434,322, 3-25-69, Cl. 72-107.

Cowles, Robert John, to Quality Components, Incorporated. Method of manufacturing cylindrical ceramic capacitors. 3,435,496, 4-1-69, Cl. 29-25.42

Cowley, Francis X., to Crowley Hession Engineers. Cryogenic tanks and process of making the same. 3,446,888, 5-27-69, Cl. 264-256.

Cowley, George E. Bath. 3,423,769, 1-28-69, Cl. 4-173.

Cowley, Harold Raymond; and Lashenko, John, to Stothert and Pitt, Limited. Non-steerable twin roll vibrating roller. 3,439,594, 4-22-69, Cl. 94-50.

Cowley, John James, to Therapeutic Research Corporation Limited. Tubular pressure vessel. 3,432,060, 3-11-69, Cl. 220-3.

Cowley, Sidney Ian; Wilde, Goeffrey Light; and Honey, Alfred John, to Rolls-Royce Limited. Gas turbine by-pass engines. 3,465,525, 9-9-69, Cl. 60-261.

Cowlin, Donald G. Belt coupled drive means. 3,426,605, 2-11-69, Cl. 74-219.

Cowlishaw, Frank; and Town, Frank, to Dobson, W. E. & F., Limited. Transportable load-carrying appliances. 3,460,697, 8-12-69, Cl. 214-515.

Cowlishaw, Frank; and Town, Frank, to Dobson, W. E., & F., Limited. Transportable load-carrying appliances. 3,476,275, 11-4-69, Cl. 214-517.

Cowman, George W.: *See—*
Zelik, Hynek J.; and Cowman, George W.,3,450,917.

Cowpland, Michael C. J.: *See—*
Lajeunesse, Harry J.; Cowpland, Michael C. J.; and Hanna, John L.,3,463,723.

Cox & Wright Limited: *See—*
Wright, Malcolm Edward John; and Cox, Gordon Cavell, 3,471,880.

Cox, Allan: *See—*
Smith, Lloyd B.,; Guinn, John T., Jr.; and Cox, Allan,3,477,111.

Cox, Alvon R., to Abbott Laboratories. Cored pillow and method of making same. 3,462,776, 8-26-69, Cl. 6-337.

Cox, Andrew J. Safety device for trenches and the like. 3,470,699, 10-7-69, Cl. 61-41.

Cox, Andrew P., Jr.; and Price, William L., to Westinghouse Electric Corporation. Signal processor. 3,432,851, 3-11-69, Cl. 343-6.5

Cox, Andrew P., Jr.: *See—*
Abruzzo, Joseph; Cox, Andrew P., Jr.; and Hollandbeck, Raymond F.,3,460,060.

Cox, Arthur S.; and Taggart, John H., to Suburban Mechanical Contractors, Inc. Production of char. 3,471,369, 10-7-69, Cl. 202-106.

Cox, Arthur; Gladysz, Carl V.; and Linke, Arthur G., to Dominion Foundries and Steel Limited. Quenching zinc metal coatings with atomised water spray. 3,428,023, 2-18-69, Cl. 118-68.

Cox, Bing A.: *See—*
Curtis, Larry L.; O'Gorman, Thomas M.; and Cox, Bing A.,3,438,349.

Cox, Bradley G., to Baker Perkins Inc. Centrifugal machine. 3,451,550, 6-24-69, Cl. 210-78.

Cox, Cecil Wayne; and Hornung, Louis M., to International Business Machines Corporation. Accumulator for performing arithmetic operations. 3,426,185, 2-4-69, Cl. 235-176.

Cox, Clarence D., to Canadian Patents and Development Limited. Comparator circuit having a hall generator for measurement of D.C. magnetic fields. 3,422,347, 1-14-69, Cl. 324-45.

Cox, Clarence: *See—*
Horton, Gilbert; Ruth, Wayne A.; and Cox, Clarence,3,433,107.

Cox, David B., to Mobil Oil Corporation. Lubrication system employing a viscoelastic liquid. 3,443,663, 5-13-69, Cl. 184-6.

Cox, David B., to Mobil Oil Corporation. Sealing system. 3,449,025, 6-10-69, Cl. 308-36.3

Cox, Dean M., to General Motors Corporation. Corrugated plate type heat exchanger. 3,451,474, 6-24-69, Cl. 165-166.

Cox, Donald C., to United States of America, Army, mesne. Elmination of phase errors due to antenna vibration. 3,482,246, 12-2-69, Cl. 343-100.

Cox, Donald J., to Cotton Enterprises, Inc. Boll and burr extractors. 3,423,797, 1-28-69, Cl. 19-202.

Cox, Duane Morley: *See—*
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Cox, Ernest Francis, to Ronson Corporation. Oscillating electric motor structure. 3,437,852, 4-8-69, Cl. 310-36.

Cox, Ernest Francis, to Ronson Corporation. Heater assembly. 3,486,003, 12-23-69, Cl. 219-375.

Cox, Ernest P. Scope sight lens protector. 3,465,446, 9-9-69, Cl. 33-50.

Cox, Eugene B., to General Electric Company. Electrical elements with impregnated dielectric and insulators. 3,450,968, 6-17-69, Cl. 317-258.

Cox, Eugene F.; and Knopf, Robert J., to Union Carbide Corporation. Phenol-formaldehyde-aliphatic amine condensation products. 3,436,373, 4-1-69, Cl. 260-51.5

Cox, Eugene F.: *See—*
Hostettler, Fritz; and Cox, Eugene F.,3,422,118.
Hostettler, Fritz; and Cox, Eugene F.,3,426,042.

Cox, Frank T., Jr.; Powers, Richard L.; and Williams, William J., to Rockwell-Standard Company, mesne. Brake actuator. 3,462,986, 8-26-69, Cl. 92-63.

Cox, Furman S., to Deering Milliken Research Corporation. Loom box front. 3,426,809, 2-11-69, Cl. 139-183.

Cox, George W.; Garcia, Lloyd J.; and Reyes, Edward, to Aggregate Plant Products Company. Mobile concrete batching plant. 3,476,270, 11-4-69, Cl. 214-2.

Cox, Gerald E.; and Krup, Donald Edward, to Therm-Appliance Mfg., Co., Inc. Apparatus for heating self-contained popcorn containers. 3,465,667, 9-9-69, Cl. 99-238.3

Cox, Gordon Cavell: *See—*
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Cox, Herbert F., Jr. Liquid measuring device. 3,447,721, 6-3-69, Cl. 222-107.

Cox, Herschel A., Jr. Self rolling dispensing tube. 3,458,087, 7-29-69, Cl. 222-99.

Cox, Howard D.; and Rosenberg, Harry W., to Titanium Metals Corporation of America. Titanium-base alloys. 3,457,068, 7-22-69, Cl. 75-175.5

Cox, Hubert L.: *See—*
Haroldson, Arthur H.; and Cox, Hubert L.,3,434,889.

Cox, Ivan F.; and Albert, Wallace R. Guitar type keying system for other instruments. 3,482,028, 12-2-69, Cl. 84-1.16

Cox, Jack C.; and Meldau, Robert F., to Phillips Petroleum Company. Retrievable filter apparatus. 3,437,135, 4-8-69, Cl. 166-115.

Cox, Jack Lamarr; and Crouch, Arthur B., to Radiation Incorporated. Welder alignment and positioning fixture. 3,475,582, 10-28-69, Cl. 219-119.

Cox, James R. Drift detector. 3,434,062, 3-18-69, Cl. 328-163.

Cox, James V.: *See—*
Altman, Max S.; and Cox, James V.,3,478,738.

Cox, Jesse H.: *See—*
McClintock, Eugene P.; and Cox, Jesse H.,3,464,600.

Cox, John B., to Mobil Oil Corporation. Flow indicator and control system. 3,446,986, 5-27-69, Cl. 307-118.

Cox, John E.; Hasser, George L.; Boehm, Guenter J.; Westhead, Stanley J.; Feldman, Theodore; and Buck, Thomas F., to International Telephone and Telegraph Corporation. Automatic switching network. 3,467,780, 9-16-69, Cl. 179-18.

Cox, John E.; and Veltri, Richard D., to United Aircraft Corporation. Process for producing glass coated beryllium fibers and resulting products. 3,483,072, 12-9-69, Cl. 161-175.

Cox, John E.: *See—*
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Cox, John J., to McDonnell Douglas Corporation, mesne. Means including a test probe having a pair of inductively coupled windings for locating faults in conductors. 3,453,533, 7-1-69, Cl. 324-52.

Cox, Julian F., Jr., to Newport News Shipbuilding and Dry Dock Company. Rotary pressure vessel. 3,481,050, 12-2-69, Cl. 34-124.

Cox, L. M., Manufacturing Co., Inc.: *See—*
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Cox, Lewis. Mixer-distributor for dry cementitious material. 3,464,676, 9-2-69, Cl. 259-153.

Cox, Mason C.: *See—*
Sara, Raymond V.; Cox, Mason C.; and Thielke, Norman R.,3,483,126.

Cox, Norman L.; and Hicks, William T., to Du Pont de Nemours, E. I., and Company. Preparation of ferromagnetic Cr O_2 by heating Cr O_3 in the presence of O_2 and Cr_2 O_3. 3,451,771, 6-24-69, Cl. 23-145.

Cox, Norman R.: *See—*
Kiff, Ben W.; and Cox, Norman R.,3,440,180.
Kiff, Ben W.; and Cox, Norman R.,3,467,716.

Cox, Paul A.: *See—*
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Cox, Percy T.: *See—*
Richter, Albert P., Jr.; and Cox, Percy T.,3,455,158.
Cox, Peter Oliver; and Cundall, James William, to Rolls-Royce Limited. Pod for a gas turbine engine. 3,474,988, 10-28-69, Cl. 244-53.
Cox, Robert B. Solvent purification. 3,425,235, 2-4-69, Cl. 62-58.
Cox, Robert P.; and Buetow, Ralph W., to Celanese Corporation. Bonding of plastic materials by polymerizable solvents. 3,445,311, 5-20-69, Cl. 156-307.
Cox, Ronald H.: *See—*
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Cox, Sam J., Jr. Campers shower. 3,483,571, 12-16-69, Cl. 4-145.
Cox, Smythe R. Food treatment and preparation apparatus. 3,472,151, 10-14-69, Cl. 99-259.
Cox Systems Limited: *See—*
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Cox, Thomas C.: *See—*
Bernholz, William F.; and Cox, Thomas C.,3,464,922.
Cox, Vernon L.; and Titus, Charles H., to General Electric Company. Ambient deionizing apparatus for insulators. 3,471,632, 10-7-69, Cl. 174-141.
Cox, Williaam J. (Sales) Limited: *See—*
Back, Philip John Quarles; and Ritchie, Colin Edward, 3,473,276.
Cox, William A., to Milchem Incorporated. Process for sealing porous earth formations by cementing. 3,482,634, 12-9-69, Cl. 166-292.
Cox, William H. Golfing aid. 3,423,095, 1-21-69, Cl. 273-189.
Cox, William J. G. Multiple pin-hole camera. 3,452,657, 7-1-69, Cl. 95-11.
Cox, William T.: *See—*
Parsons, Robert E.; Darms, Fred J.; and Cox, William T.,3,436,038.
Coy, Calvin L., to Kalamazoo Manufacturing Company. Railway roadbed plow. 3,468,042, 9-23-69, Cl. 37-104.
Coy, Donald L., to St. Marys Tool & Die, Inc. Fluid transmission apparatus. 3,483,799, 12-16-69, Cl. 91-451.
Coyle, Edward L.: *See—*
Geyer, Wallace T.; and Coyle, Edward L.,3,468,300.
Coyle, Edward L.; and Kemp, Willard E., to ACF Industries, Incorporated. Controlled aeration system for a covered hopper railway car in transit. 3,486,241, 12-30-69, Cl. 34-22.
Coyle, Harry H.; and Michelsen, Johan L., to Okon, R. J., Company, Inc., mesne. Keyless chuck. 3,467,403, 9-16-69, Cl. 279-58.
Coyle, Jan R., to Threadline Fastener Corporation, mesne. Internally threaded self-locking fastener and method of making the same. 3,437,118, 4-8-69, Cl. 151-7.
Coyle, Robert D. Vehicle with shock absorbing mounting. 3,476,434, 11-4-69, Cl. 296-35.
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Cahoy, Roger P.; and Coyne, Donald M.,3,446,753.
Coyne, Donald M.; and Cahoy, Roger P., to Gulf Oil Corporation. Oxidation of isobutylene to methacrylaldehyde over complex tungsten oxide catalysts. 3,444,240, 5-13-69, Cl. 260-604.
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Crabtree, Kenneth L., to Keyes Fibre Company. Molded container positioner. 3,477,564, 11-11-69, Cl. 206-65.
Crabtree, Lloyd O.; and Van den Broek, Jan A., to Conductron Corporation. Synchronous optical interrogation system. 3,427,634, 2-11-69, Cl. 346-108.
Crabtree, Reece J., to Sinclair Research, Inc. Self-proportioning flow system. 3,448,754, 6-10-69, Cl. 137-99.5
Crabtree, Royale R.; Beeker, Charles W.; and Mead, Dennis E, to United States of America, Army. Grenade ejector. 3,448,654, 6-10-69, Cl. 89-1.5
Craddock, Mike. Probe electrode. 3,470,742, 10-7-69, Cl. 73-304.
Craft, David J., to British Telecommunications Research Limited. Fluid flow measuring equipment. 3,449,953, 6-17-69, Cl. 73-204.
Craft, David John, to British Telecommunications Research Limited. Fluid control devices. 3,457,933, 7-29-69, Cl. 137-81.5
Craft, Donald I., to General Electric Company. Film stretching device. 3,422,669, 1-21-69, Cl. 73-102.
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Crafts, Cecil A., to Robertshaw Controls Company. FSK and PSK wave receiver. 3,470,478, 9-30-69, Cl. 325-320.
Crafts, Cecil A.; and Goodwin, Perry H., Jr., to Robertshaw Controls Company. Frequency shift detection system. 3,474,341, 10-21-69, Cl. 325-320.
Cragg, Hoyt J.; and Nolen, Doyle A., to Ethyl Corporation. Process of oxidizing aluminum alkyls. 3,475,476, 10-28-69, Cl. 260-448.
Cragg, Richard E., to Teletype Corporation. Winding reel. 3,468,492, 9-23-69, Cl. 242-71.8
Cragg, William Donald; and Barnes, George J. P., to International Standard Electric Corporation. Electromechanical transducer coupled to low in- put impedance transistor amplifier and yielding a flat response over a given frequency range. 3,445,595, 5-20-69, Cl. 179-1.
Cragoe, Edward J., Jr., to Merck & Co., Inc.[4-(2,3-Dihaloalkanoyl)phenoxy] alkanoic acids. 3,445,511, 5-20-69, Cl. 260-521.
Cragoe, Edward J., Jr., to Merck & Co., Inc.[4-[2-(Alkoxymethyl)alkanoyl]phenoxy]acetic. 3,450,750, 6-17-69, Cl. 260-521.
Cragoe, Edward J., Jr., to Merck & Co., Inc.[[3-(Hydrocarbylpolythio)alkanoyl] phenoxy] alkanoic acids and [[3-(hydrocarbylpolythio)alkanoyl] phenylthio] alkanoic acids. 3,458,563, 7-29-69, Cl. 260-516.
Cragoe, Edward J., Jr., to Merck & Co., Inc.Preparation of [4-(2-methylenealkanoyl)- phenoxy]alkanoic acids. 3,478,085, 11-11-69, Cl. 260-473.
Cragoe, Edward J., Jr., to Merck & Co., Inc.Preparation of [(2-methylenealkanoyl) phenoxy]alkanoic acids. 3,479,402, 11-18-69, Cl. 260-520.
Cragoe, Edward J., Jr.; and Baldwin, John J., to Merck & Co., Inc. 2,5-Disubstituted-2-(carboxyalkoxyaroyl)-6- (carboxyalkoxyaryl)-3,4-dihydro-2H-pyrans and their derivatives. 3,483,227, 12-9-69, Cl. 260-345.7
Cragoe, Edward J., Jr.; and Bicking, John B., to Merck & Co., Inc.[(2,2-Diacylvinyl)aryloxy(and arylthio)] alkanoic acid derivatives. 3,465,022, 9-2-69, Cl. 260-453.
Cragoe, Edward J., Jr.; and Jones, James H., to Merck & Co., Inc. 3-Hydroxy and 3-mercapto-pyrazinoylguanidines, corresponding ethers and thioethers and processes for their preparation. 3,472,848, 10-14-69, Cl. 260-250.
Cragoe, Edward J., Jr.; and Jones, James H., to Merck & Co. Inc. 2,4-Diamino-6-halopteridines and processes for their preparation. 3,487,082, 12-30-69, Cl. 260-251.5
Cragoe, Edward J., Jr.: *See—*
Bicking, John B.; and Cragoe, Edward J., Jr.,3,458,565.
Jones, James H.; and Cragoe, Edward J., Jr.,3,461,123.
Schultz, Everett M.; and Cragoe, Edward J., Jr.,3,445,503.
Sprague, James M.; and Cragoe, Edward J., Jr.,3,478,021.
Cragomatic, Inc.: *See—*
Egeland, Haakon G.; and Dioguardi, John, 3,447,665.
Cragon, Harvey G.; and Smith, Samuel K., to Texas Instruments, Incorporated. Digital integrator. 3,422,435, 1-14-69, Cl. 343-17.1
Cragstan Industries, Inc.: *See—*
Stanton, Frank, 3,433,110.
Cragtan Industries, Inc.: *See—*
Tobari, Sakujiro, 3,448,649.
Craia, Giulio: *See—*
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Craig & Seeley Limited: *See—*
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Craig, Allen G.: *See—*
Arndt, Richard H.; and Craig, Allen G.,3,466,593.
Clark, Albert A.; Craig, Allen G.; and Wilbur, Benjamin,3,456,511.
Craig, Andrew J. Masking slide mount. 3,470,644, 10-7-69, Cl. 40-158.
Craig, Burnie M.: *See—*
Proudfoot, Ward M.; Craig, Burnie M.; and Viancour, Albert D.,3,480,043.

Craig, Dwin R., to Ingenuics, Inc., mesne. Transaxial processor. 3,453,944, 78-69, Cl. 95-94.
Craig, Dwin, to Fairchild Hiller Corporation. Camera system. 3,435,743, 4-1-69, Cl. 95-12.5
Craig, Forrest F., Jr.: *See—*
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Craig, Francis A.; and Albright, Merle L., to Reynolds Metals Company. Method and apparatus for autoclaving product- containing flexible pouch constructions or the like. 3,481,688, 12-2-69, Cl. 21-56.
Craig, Gene C., to Schlumberger Technology Corporation. Well tool with selectively-engaged anchoring means. 3,429,375, 2-25-69, Cl. 166-130.
Craig, George B., Jr.; and Fuchs, Morton, to United States of America, Health Education and Welfare. Sterilization of female mosquitoes with a hormone derived from male mosquitoes. 3,450,816, 6-17-69, Cl. 424-95.
Craig, James A.: *See—*
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Craig, Jimmie M., to United States of America, Navy. Very low descent rate, high intensity, illuminating flare. 3,478,687, 11-18-69, Cl. 102-35.
Craig, Jimmie M.; Pohl, Russell A.; and Yost, Paul E., to United States of America, Navy, mesne. Method for inflating a balloon. 3,469,805, 9-30-69, Cl. 244-31.
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Bentley, Roy; and Craig, John,3,463,660.
Craig, Orlyn W., to Sperry Rand Corporation. Multivibrator having an output frequency independent of fluctuations in energizing voltage. 3,484,674, 12-16-69, Cl. 321-45.
Craig, Richard L., to Nalco Chemical Company. Purification of ethers. 3,450,608, 6-17-69, Cl. 204-59.
Craig, Richard L., to Dow Chemical Company, The. Hydroxyalkyl acrylate interpolymers crosslinked with tris (aziridinyl) phosphine oxides or sulfides. 3,458,485, 7-29-69, Cl. 260-79.5
Craig, Richard L.: *See—*
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Craig, Richard T., to Aluminum Company of America. Horizontal continuous casting. 3,455,369, 7-15-69, Cl. 164-73.
Craig, Robert G.; Doelp, Louis C., Jr.; and Friedman, Lee, to Air Products and Chemicals, Inc. Benzene production. 3,487,120, 12-30-69, Cl. 260-674.
Craig, Robert J. G., to Teledyne Systems, Inc. Free rotating gyro alignment apparatus. 3,430,499, 3-4-69, Cl. 74-5.1
Craig, Sam N.: *See—*
Combs, William H.; Craig, Sam N.; and Barland, Lance C.,3,426,677.
Craig, Thomas Moodie. Fluid machines. 3,433,167, 3-18-69, Cl. 103-125.
Craig, Walter J., to Kand Rubber Company. Closure construction. 3,432,069, 3-11-69, Cl. 220-63.
Craig, Walter J., to K and M Rubber Company. Storage container. 3,470,927, 10-7-69, Cl. 150-0.5
Craig, Winfred C.; Davis, Gershon J.; and Shull, Peter O., to GAF Corporation. Catalytic reduction of chloronitro aromatic compounds. 3,474,144, 10-21-69, Cl. 260-580.
Craighead, Philip B.; and Naffa, Faisal A., to Brooks & Perkins, Incorporated. Field hangar or shelter. 3,449,872, 6-17-69, Cl. 52-66.
Crain, Donald L.: *See—*
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Crain, Donald L., to Phillips Petroleum Company. Bis(cycloalkenyl)-substituted olefins. 3,463,828, 8-26-69, Cl. 260-666.
Stapp, Paul R.; and Crain, Donald L.,3,457,320.
Crain, Edward I. Brackets for supporting a shelf. 3,469,811, 9-30-69, Cl. 248-248.
Crain, Robert L., to Gray Tool Company. Remotely releasable pipe connection. 3,484,912, 12-23-69, Cl. 24-279.
Crainich, Victor A., Jr.: *See—*
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Cram, Donald John: *See—*
Birkett, Gordon; and Cram, Donald John,3,464,934.
Cram, Robert D.: *See—*
Emanuelson, Roy M.; and Cram, Robert D.,3,433,947.
Cramer, Christoph; Kluge, Gunter; and Woitke, Ernst, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Process and apparatus for making paper covered electrical cable conductors. 3,451,204, 6-24-69, Cl. 57-18.
Cramer, Claude: *See—*
Chemla, Claude; Cramer, Claude; and Leger, Francois,3,462,738.
Cramer, Harold W. Chair. 3,446,532, 5-27-69, Cl. 297-312.
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Walkinshaw, Thomas G., 3,443,784.
Cramer, Max: *See—*
Remensperger, Franz; Cramer, Max; and Schnee, Walter,3,451,569.
Cramer, Robert, Jr., to Murphy Diesel Company. Torque control system for prime movers. 3,447,517, 6-3-69, Cl. 123-97.
Cramer, Ulrich; Jung, Manfred; and Weinmann, Karl, to Fiala, Martin, KG. Device for the hitching of a loading platform. 3,450,417, 6-17-69, Cl. 280-425.
Cramer, William F., Jr., to United States of America, Army. Segmental propellant grain. 3,468,125, 9-23-69, Cl. 60-39.47
Cramm, Rudolf: *See—*
Dilchert, Heinz; Cramm, Rudolf; and Fibranz, Joachim,3,442,084.
Cramm, Russell H.; and McFadden, Russell T., to Dow Chemical Company, The. Copolymers of styrene compounds and dialkylamino hydroxypropyl methacrylates. 3,440,232, 4-22-69, Cl. 260-80.73
Crampton, Felix Jeremy Philip; and Wilkinson, Terence Sidwell, to Conch International Methane Limited, mesne. Air drying by direct contact with separated liquid oxygen fraction. 3,440,827, 4-29-69, Cl. 62-13.
Cranage, Bidwell C., to Stile-Craft Manufactures, Inc. Secondary poppet and pusher system. 3,441,046, 4-29-69, Cl. 137-329.1
Cranage, Bidwell C., to Stile-Craft Manufacturers, Inc. Audio relief valve. 3,459,218, 8-5-69, Cl. 137-557.
Cranage, Bidwell Chapman, to Stile-Craft Manufacturers, Inc. Coupler assembly. 3,448,760, 6-10-69, Cl. 137-360.
Cranage, Bidwell Chapman, to Stile-Craft Manufactures, Inc. Coupler assembly. 3,477,105, 11-11-69, Cl. 24-230.
Cranch, Edward J.; and Stanwood, Robert H., to Leeds & Northrup Company. Independent zero and range adjustments for non- linear output differential pressure transmitter force balance system. 3,449,651, 6-10-69, Cl. 318-22.
Cranch, John E.: *See—*
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Cranch, William E., to Bunker-Ramo Corporation, The. Electronic component test fixture. 3,458,687, 7-29-69, Cl. 219-521.
Crandall, Charles B.; and Townsend, Franklin L., to Barber-Colman Company. Method and apparatus for open end spinning. 3,468,116, 9-23-69, Cl. 57-58.89
Crandall, Gary J., to United States of America, Atomic Energy Commission. Fuel pin spacers. 3,463,703, 8-26-69, Cl. 176-78.
Crandall, Herbert D. Sine V-block. 3,423,885, 1-28-69, Cl. 51-217.
Crandon, Harry D.; and Greenberg, Ronald B., to American Optical Corporation, mesne. Abrasion-resistant optical element. 3,484,157, 12-16-69, Cl. 351-166.
Crane, Carlton L., to Eastman Kodak Company. Drying processes for low viscosity cellulose esters. 3,455,901, 7-15-69, Cl. 260-230.
Crane, Carlton L.; and Malm, Carl J., to Eastman Kodak Company. Method for hydrolyzing cellulose triesters without viscosity loss and for manufacturing toluene soluble cellulose butyrate. 3,485,816, 12-23-69, Cl. 260-225.
Crane, Carlton L.; and Williams, Robert F., Jr., to Eastman Kodak Company. Forming articles of organic acid esters of cellulose with low melting points and improved solubility and molding properties. 3,467,746, 9-16-69, Cl. 264-330.
Crane Carton Corporation: *See—*
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Crane, Charles V. Electronic door lock and supervisory system. 3,441,808, 4-29-69, Cl. 317-134.
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Bearint, David E., 3,483,710.
Cantalupo, Francis J.; and Setka, Raymond P., 3,482,459.
Crits, George John, 3,455,819.
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Kanter, Jerome J., 3,438,802.
Kustwin, Leo Frank, 3,429,556.
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Morando, Jorge A., 3,482,523.
Smith, Kenneth C.; and Marks, Robert, 3,458,438.
Crane, Donald R., to Reynolds Metals Company. Method for making a pouch of laminated sheet material. 3,447,428, 6-3-69, Cl. 93-35.
Crane, Edward J., to International Agri-Systems, Inc. Heat exchange tank. 3,426,546, 2-11-69, Cl. 62-63.
Crane, Edward J., to International Agri-Systems, Inc. Poultry picker. 3,453,683, 7-8-69, Cl. 17-11.1
Crane Engineering Company, Incorported: *See—*
Pohle, William A., 3,466,073.
Crane, Everett D.; and Werbel, Burton, to United States of America, Army. Smoke cartridge. 3,430,569, 3-4-69, Cl. 102-90.
Crane, Grant; and Kay, Edward L., to Firestone Tire & Rubber Company, The. Process for dehydrogenation of olefins. 3,456,030, 7-15-69, Cl. 260-680.
Crane, H. W., Company: *See—*
Kruse, Marvin A., 3,435,558.
Crane, Hewitt D.; and Mac Curdy, William K., to AMP Incorporated. Magnetic-core shift register. 3,453,605, 7-1-69, Cl. 340-174.

Crane, Jack W.; and Nolt, Edwin B., to Sperry Rand Corporation. Hay baler. 3,464,345, 9-2-69, Cl. 100-142.
Crane, Jack W.; Nolt, Edwin B.; and James, William E., to Sperry Rand Corporation. Hay baler. 3,464,346, 9-2-69, Cl. 100-142.
Crane, Michael, to General Pneumatics Corporation. Gas generator. 3,481,149, 12-2-69, Cl. 62-45.
Crane Packing Company: *See—*
Domeny, Steven, 3,470,781.
Schulz, Eugene A., 3,443,342.
Crane Packing Limited: *See—*
Wilkinson, Samuel C. W., 3,438,640.
Crane, Paul J., to Magnavox Company, The. FM demodulator circuit for use in a facsimile system. 3,467,772, 9-16-69, Cl. 178-6.
Crane, Paul J.; and Reese, Glenn A., to Magnavox Company, The. Acoustical coupler. 3,449,522, 6-10-69, Cl. 179-1.
Crane Plastics, Inc.: *See—*
Bordner, Paul G., 3,432,966.
Posey, Paul D., 3,442,055.
Crane, Samuel P.; and Kent, Stephen D. Ventilating spacer. 3,451,074, 6-24-69, Cl. 5-347.
Crane, Walton B. Container for hanger-supported clothing. 3,421,614, 1-14-69, Cl. 206-7.
Crane, William B., Jr., to International Inpak Incorporated, mesne. Packaging machine. 3,470,675, 10-7-69, Cl. 53-167.
Crane, William B., Jr. Display package blank forming machine. 3,470,794, 10-7-69, Cl. 93-1.
Crane, William W. T.; and Stevens, Carlile R. Swimming pool water conditioner. 3,458,414, 7-29-69, Cl. 204-149.
Cranford, William B.; Petricola, Anthony J.; and McLeod, Murray J., to Canadian International Paper Company. Process of forming dielectric paper. 3,475,269, 10-28-69, Cl. 162-138.
Crank, Geoffrey James; and Eastwood, Geoffrey Wallwork, to Postmaster General, Her Majesty's. Magnetic marking of ferromagnetic articles. 3,452,343, 6-24-69, Cl. 340-174.1
Crans, David E. Apparatus for playing a mathematical board game. 3,460,835, 8-12-69, Cl. 273-135.
Cranston, Albert E., Jr.; Cranston, Albert W.; and Rowell, William J., to Devco, Inc. Wrapper dispenser. 3,471,994, 10-14-69, Cl. 53-209.
Cranston, Albert W.: *See—*
Cranston, Albert E., Jr.; Cranston, Albert W.; and Rowell, William J.,3,471,994.
Cranstoun, Leroy Bruce, to Ethicon, Inc. Method and apparatus for making collagen articles. 3,432,392, 3-11-69, Cl. 195-6.
Crary, William G.: *See—*
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Craske, Haydn L., to Girling Limited. Spot type disc brake including spring biased caliper. 3,421,602, 1-14-69, Cl. 188-73.
Crast, Leonard B., Jr., to Bristol-Myers Company. 7-[α-Hydroxy-(2'or 3'-thienyl)-acetamido] cephalosporanic acids and related salts and derivatives. 3,422,099, 1-14-69, Cl. 260-243.
Crast, Leonard Bruce, Jr., to Bristol-Myers Company. S-substituted-thioacetamidocephalosporins. 3,422,100, 1-14-69, Cl. 260-243.
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Craven, Aaron S., Jr. Swivel bearing structure. 3,428,998, 2-25-69, Cl. 16-21.
Craven, George Frederick; Heeks, John Stuart; and Woode, Alan David, to International Standard Electric Corporation. Pulse amplitude modulation to pulse width modulation converter. 3,422,364, 1-14-69, Cl. 329-106.
Craven, Herman R.; and Baxendale, John W., to Vendo Company, The. Sold-out control mechanism for double-depth stack article vender. 3,420,404, 1-7-69, Cl. 221-14.
Craven, James M., to Du Pont de Nemours, E. I., and Company. Crosslinked thermally reversible polymers produced from condensation polymers with pendant furan groups crosslinked with maleimides. 3,435,003, 3-25-69, Cl. 260-47.
Craven, James M.; Dye, John I.; and Hochberg, Jerome, to Du Pont de Nemours, E. I., and Company. Synthetic microporous polymeric sheet material. 3,481,766, 12-2-69, Cl. 117-76.
Craven, James M.; Dye, John I.; and Hoohberg, Jerome, to Du Pont de Nemours, E. I., and Company. Process for applying a polyurethane finish composition to synthetic microporous polymeric materials. 3,481,767, 12-2-69, Cl. 117-76.
Craven, Robert Lee, to Du Pont de Nemours, E. I., and Company. Method and apparatus for forming a fiber pack from bulky fibrous elements. 3,485,693, 12-23-69, Cl. 156-175.
Craven, Tom: *See—*
Stevens, Hugh Frederick; and Craven, Tom,3,463,622.
Craven, William J., to Dart Industries, Inc., mesne. Process of preparing block copolymers of polyolefines and polar vinyl monomers. 3,458,598, 7-29-69, Cl. 260-877.
Cravens, Raymond L. Golf club cart. 3,451,690, 6-24-69, Cl. 280-40.
Crawford & Russell Incorporated: *See—*
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Crawford, Allan H., to Mohasco Industries, Inc. Recliner-rocker chair with a handle operated footrest. 3,475,051, 10-28-69, Cl. 297-69.
Crawford, Burdette B. Hand truck. 3,425,575, 2-4-69, Cl. 214-379.
Crawford, Charles R.: *See—*
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Crawford, Donald C.; Viitanen, Veikko K.; and Hoffman, John D., to FMC Corporation. Bag stacker. 3,431,828, 3-11-69, Cl. 93-13.
Crawford, Duncan James, to Ex-Cell-O Corporation. Container closure construction. 3,471,076, 10-7-69, Cl. 229-17.
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Crihfield, Richard P.; and Dodge, Harry G., 3,433,042.
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Lennon, Fred A.; Zahuranec, Emery J.; Dodge, Harry G.; and Szohatzky, Zoltan, 3,475,948.
Crawford, George H., Jr., to Minnesota Mining and Manufacturing Company. Reacting nitrice oxide with olefins and products produced therefrom. 3,436,384, 4-1-69, Cl. 260-91.1
Crawford, Ishmael, to Colebrook Mills, Inc. Cable knitting method and apparatus. 3,431,752, 3-11-69, Cl. 66-96.
Crawford, Jack D., to Nalco Chemical Company. Corrosion inhibiting process. 3,447,891, 6-3-69, Cl. 21-2.5
Crawford, Jack E.; Foster, Harold M.; and Higgins, Thomas W., to Mobil Oil Corporation. Aluminum chloride catalyzed reaction of aliphatic dibasic acid anhydrides with heterocyclic compounds. 3,465,004, 9-2-69, Cl. 260-332.2
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Crawford, James L., to Caterpillar Tractor Company. Alternator with multiple coil rotating field. 3,444,410, 5-13-69, Cl. 310-262.
Crawford, James L.; and Staebler, Paul J., to Caterpillar Tractor Company. Method for forming rotor constrained electrical coils. 3,458,928, 8-5-69, Cl. 29-605.
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Crawford, Lloyd W., to Du Pont de Nemours, E. I., and Company. Process of drying film. 3,422,546, 1-21-69, Cl. 34-25.
Crawford, Louis L.; Christensen, Thor E.; Sondej, Vincent S.; and Bajcar, Miles S., to Chemetron Corporation. Hide stripping apparatus. 3,461,482, 8-19-69, Cl. 17-21.
Crawford, Lynn D., 1/2 to Hanscom, Genevieve I., and 1/2 to Hanscom, Genevieve I., Magnuson, Robert, and Duggan, Louis J., as trustees of the estate of Magnuson, Roy M. Sorting system for food articles. 3,422,954, 1-21-69, Cl. 209-102.
Crawford, Ralph W., to Fisher-Price Toys, Inc. Music box viewer toy. 3,482,345, 12-9-69, Cl. 40-28.1
Crawford, Ray H.: *See—*
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Kitasaki, Kiyoshi; Bengelsdorf, Irving S.; and Crawford, Robert F.,3,443,925.
Crawford, Robert H., to Texas Instruments Incorporated. Trainable decision system utilizing metal-oxide- semiconductor field effect transistors. 3,430,203, 2-25-69, Cl. 340-172.5
Crawford, Robert H., to Texas Instruments, Incorporated. Linear amplifier utilizing a pair of field effect transistors. 3,436,621, 4-1-69, Cl. 317-235.
Crawford, Rondal G.: *See—*
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Crawley, John F.; and Abelseth, Melvin Kenneth, to University of Toronto, The Governors of the. Rabies vaccine and process for preparation thereof. 3,423,505, 1-21-69, Cl. 424-89.
Crawley, John; Saunders, Alan; Milne, Alistair; and Campbell, William Henry, to Vickers Limited. High pressure device. 3,431,825, 3-11-69, Cl. 92-165.
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Crawshaw, James Robert; and Bills, Kenneth Gordon, to TRW Inc., mesne. DC motor with P-M stator, split housing, and brush assembly. 3,445,693, 5-20-69, Cl. 310-42.
Craycraft, Orville L. Pipe wiper. 3,422,483, 1-21-69, Cl. 15-210.

Crayton, John W.: *See—*
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CRC Crose International, Inc.: *See—*
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Creager, Lester W. Bucket tooth for excavating equipment. 3,431,664, 3-11-69, Cl. 37-142.
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Creamer, Charles Edward, to Union Carbide Corporation. Preparation of organosilicon-nitrogen compounds. 3,467,686, 9-16-69, Cl. 260-448.2
Creamer, Charles E., to Union Carbide Corporation. Single package room temperature vulcanizing silicone elastomer compositions. 3,451,964, 6-24-69, Cl. 260-37.
Creamer, Robert J., to Olin Mathieson Chemical Corporation. Firearm receiver and bolt with cooperating guide means. 3,431,668, 3-11-69, Cl. 42-16.
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Creasy, Fred K.; Horlacher, Robert L.; Logan, Mason A.; Smith, Larrabee M.; and Young, William Rae, Jr., to Bell Telephone Laboratories, Incorporated. Synchronous data repeater having noncompatible signal bypass. 3,440,337, 4-22-69, Cl. 178-4.
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Creative Systems, Inc.: *See—*
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Creators Limited: *See—*
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Crosby, Noble W.; Clarke, Gordon J.; and Walker, Robert C., to Lacal Industries Limited. Spacer damper. 3,454,705, 7-8-69, Cl. 174-42.
Crosby, Noble W.; Walker, Robert C.; and Clarke, Gordon J., to Lacal Industries Limited. Spacer damper. 3,474,184, 10-21-69, Cl. 174-42.
Crosby, Philip S., to Tektronix, Inc. Oscillographic instrument for separately viewing portions of an input signal. 3,457,505, 7-22-69, Cl. 324-121.
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Cross, Alexander D.; Edwards, John A.; and Berkoz, Belig, to Syntex Corporation. Oxygen containing heterocyclic ethers. 3,429,899, 2-25-69, Cl. 260-345.7
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Cross, Alexander D.; and Fried, John H., to Syntex Corporation. Bicyclo[2.2.2]octane-1-carboxylate esters of Δ^4- pregnene corticoid steroids. 3,484,436, 12-16-69, Cl. 260-239.55
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Cross, James M. Mobay Chemical Company Isomeric mixtures of methylcyclohexylene diamine. 3,424,792, 1-28-69, Cl. 260-563.
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Crouch, Harold C., to Cleveland Technical Center, Inc. Braking system. 3,432,210, 3-11-69, Cl. 303-3.
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Crovatt, Lawrence W., Jr., to Monsanto Company. Preparation of nylon with polyalkylene glycol diamine as additive. 3,454,534, 7-8-69, Cl. 260-78.

Crovatt, Lawrence W., Jr.; and Huffman, William A. H., deceased0 (by Huffman, Ernestine H.; executrix), to Monsanto Company. Polycarbonamides resistant to acid dyes. 3,440,226, 4-22-69, Cl. 260-78.

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Crowell, Merton H.; and Gordon, Eugene I., to Bell Telephone Laboratories, Incorporated. Multiple readout electron beam device. 3,440,477, 4-22-69, Cl. 315-11.

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Crowell, Merton H.; and Morton, Jack A., to Bell Telephone Laboratories, Incorporated. Cathode ray storage devices. 3,428,850, 2-18-69, Cl. 315-12.

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Crutchfield, Marvin M.; and Irani, Riyad R., to Monsanto Company. Tris(phosphono-lower alkylidene) amine oxides. 3,474,133, 10-21-69, Cl. 260-502.5
Crutchfield, Marvin M.; and Irani, Riyad R., to Monsanto Company. Esters, salts, and acids of organo-phosphono-amine oxides. 3,483,178, 12-9-69, Cl. 260-140.
Cruz, Edgardo A. Automatic sampler. 3,443,439, 5-13-69, Cl. 73-423.
Cruz, Jose C.; and Ferrara, Rudolph A., to General Motors Corporation. Double acting seat hinge. 3,455,602, 7-15-69, Cl. 297-354.
Cruz, Luis Roberto. Directional control means for high turbulence and velocity of fluid flow over an airfoil assembly. 3,463,417, 8-26-69, Cl. 244-23.
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Cruz, Mamerto M., to FMC Corporation. Water-laid sheets containing synthetic fibers. 3,485,713, 12-23-69, Cl. 162-146.
Cryder, John R.; Field, Jesse L., Jr.; Lohbauer, Kenneth R.; and Scheidt, James E., to Caterpillar Tractor Company. Control system for dual motors. 3,486,418, 12-30-69, Cl. 91-411.
Cryder, John R.; Haak, Willard J.; Hufeld, John L.; Kinney, Lionel L.; Lohbauer, Kenneth R.; Marsden, Howard A.; Matthews, Ralph W.; Norick, William B.; Stewart, Glen E.; Vanzandt, Rollin P.; and Winters, Frank H., to Caterpillar Tractor Company. Hydrostatic transmission control system. 3,477,225, 11-11-69, Cl. 60-19.8
Cryder, John R.; and Kroth, Neil W., to Caterpillar Tractor Company. Relief valve for hydraulic circuits. 3,478,646, 11-18-69, Cl. 91-411.
Cryer, Del. Liquid density measuring method and apparatus. 3,460,394, 8-12-69, Cl. 73-439.
Cryer, Edward, to Lucas, Joseph, (Industries) Limited. Ignition switch utilizing a cam means for restrictive movement unless key is first moved to off position. 3,457,380, 7-22-69, Cl. 200-26.
Cryer, Edward, to Lucas, Joseph , (Industries) Limited. Fuse holders for use with flexible printed circuits. 3,482,194, 12-2-69, Cl. 337-227.
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Csaki, Joachim, to Schmitt, Ackermann U., K.G. Electromotor with detachable stator. 3,484,860, 12-16-69, Cl. 310-42.
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Csaszar, Frank C., to Dow Chemical Company, The, mesne. Elastomeric chlorinated polyethylene compositions and method of producing same. 3,485,788, 12-23-69, Cl. 260-33.8
Cserhati, Janos: *See—*
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Cseri, Zoltan. Coupling device. 3,478,895, 11-18-69, Cl. 213-15.
Cserny, Fred P. Tap assembly for beer kegs. 3,447,558, 6-3-69, Cl. 137-212.
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Csizmas, Louis L.; and Patel, Virendra, to Miles Laboratories, Inc. Placement device. 3,480,400, 11-25-69, Cl. 23-259.

Csizmas, Louis L.; and Patel, Virendra, to Miles Laboratories, Inc. Reagent deposition device. 3,482,943, 12-9-69, Cl. 23-253.

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Cubberley, Harold A.; Abel, Edmund, Jr.; and Sackett, John E., to Service Recorder Company, The. Valve assembly. 3,433,255, 3-18-69, Cl. 137-510.

Cubberley, Mitchell H. Ski binding. 3,471,161, 10-7-69, Cl. 280-11.35

Cubberley, Mitchell H.; and Lipe, Gordon C.Safety devices for reducing friction between a ski and a skier's boot sole. 3,448,990, 6-10-69, Cl. 280-11.35

Cubberly, Walter E., Jr., to Schlumberger Technology Corporation. Well-calipering apparatus. 3,474,541, 10-28-69, Cl. 33-178.

Cubert, Jack S.; and Murphy, James J., to Sperry Rand Corporation. Computer logic device consisting of an array of tunneling diodes, isolators and short circuits. 3,423,646, 1-21-69, Cl. 317-234.

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Cufflin, Maurice Harold, to Marconi Company Limited, The. Apparatus for measuring speed comprising a light- electric translating device. 3,486,032, 12-23-69, Cl. 250-211.

Cughbert, John D.; and Thomas, David G., to Bell Telephone Laboratories, Incorporated. Electroluminescent material and device. 3,462,630, 8-19-69, Cl. 313-108.

Cugini, Edward T.; and Jeannerett, Wallace S., to Shaffer Tool Works. Cable feed-through means and method for well head constructions. 3,437,149, 4-8-69, Cl. 166-315.

Cugini, John A.; and Chabot, Leo L., to Marshall, John Donald, and Bomar, Horace L., as trustees, mesne. Mechanism for marking yarn on spun bobbins. 3,425,395, 2-4-69, Cl. 118-232.

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Culbert, Robert M.; and Mugford, Clifton C., to Farr Company. Resettable differential pressure indicator. 3,436,500, 4-1-69, Cl. 200-81.6

Culbertson, Billy M., to Ashland Oil & Refining Company. Aromatic polyimideamides prepared from aromatic tetracarboxylic acid dianhydrides and aminoaromatic hydrazides. 3,453,236, 7-1-69, Cl. 260-47.

Culbertson, George S.; Sabol, Albert R.; and Karll, Robert E., to Standard Oil Company (Indiana). Aromatic hydrocarbons alkylated with normal butene polymers and the method of preparing the same. 3,456,027, 7-15-69, Cl. 260-671.

Culbertson, Harry M.; and Buchanan, Alan David, to Monsanto Chemicals (Australia) Limited. Production of high-ortho novolak resins. 3,476,707, 11-4-69, Cl. 260-57.

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Cull, John V. Terminal board wire wrap intercept connector. 3,471,821, 10-7-69, Cl. 339-17.

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Cullis, Roger, to International Standard Electric Corporation. Semiconductor process including reduction of the substrate thickness. 3,428,499, 2-18-69, Cl. 148-174.
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Culp, Gordon L.; Hansen, Sigurd P.; and Stukenberg, John R., to Neptune Microfloc, Incorporated. Sewage treatment method and plant. 3,472,764, 10-14-69, Cl. 210-7.
Culp, Gordon L.; Schilling, Robert D.; Hansen, Sigurd P.; and Botsford, Charles W., to Neptune Microfloc, Incorporated. Waste water treatment system. 3,425,936, 2-4-69, Cl. 210-8.
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Culpepper, Alan L., to Dow Corning Corporation. Fluid aromatic siloxane block copolymers. 3,440,262, 4-22-69, Cl. 260-448.2
Culpepper, Eugene, to Phillips Petroleum Company. Apparatus for stacking and packing articles. 3,473,290, 10-21-69, Cl. 53-77.
Culpepper, Harold D.; and Gentry, William O., to United States of America, Atomic Energy Commission. Alarm system for UF_6 in air. 3,474,022, 10-21-69, Cl. 204-195.
Culshaw, William; Dahlquist, John A.; and Peterson, Don G., to Lockheed Aircraft Corporation. Opposite circularly-polarized optical heterodyne detection system. 3,463,924, 8-26-69, Cl. 250-199.
Cultrera, Samuel. Fishing floats. 3,455,056, 7-15-69, Cl. 43-44.91
Culver, Clyde C., to General Motors Corporation. Tractor track shoe. 3,477,768, 11-11-69, Cl. 305-54.
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Cumming, James C., to Rockwell-Standard Company. Vehicle brake system. 3,453,030, 7-1-69, Cl. 303-89.
Cumming, James C., to Rockwell-Standard Company, mesne. Vehicle brake control mechanism. 3,484,138, 12-16-69, Cl. 303-22.
Cumming, James Deans. Friction grip wedge fasteners. 3,455,200, 7-15-69, Cl. 85-66.
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Cumming, William A., to Canadian Patents and Development Limited. Apparatus for dielectric heating. 3,457,385, 7-22-69, Cl. 219-10.61
Cumming, William A.; and Bleackley, William J., to Canadian Patents and Development Limited. Microwave dryer for drying the glue line in paper forms. 3,456,355, 7-22-69, Cl. 34-1.
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Cummings, Alan F., to North American Rockwell Corporation. Flexible aerodynamic body. 3,433,441, 3-18-69, Cl. 244-138.
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Cummings, Edwin, Jr.: *See—*
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Cummings, Howard B., to Interpace Corporation. Ceramic casting techniques. 3,431,332, 3-4-69, Cl. 264-86.
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Cummings, Lowell O., to Pacific Vegetable Oil Corporation. Polyaldehyde-polyamine coating composition. 3,475,359, 10-28-69, Cl. 260-21.
Cummings, Raymond P., to National Biscuit Company. Article aligning and row accumulating apparatus. 3,463,291, 8-26-69, Cl. 198-30.
Cummings, Timothy E., to Bethlehem Steel Corporation. Desilting equipment. 3,449,915, 6-17-69, Cl. 61-2.
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Cummins, Earl W., to Du Pont de Nemours, E. I., and Company. Chlorination of 3,6-disubstituted uracils. 3,480,631, 11-25-69, Cl. 260-260.
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Cunha, Joseph J.; and Conlon, Thomas E., to Cunha Products Incorporated. Load distributing assembly for wheel supported vehicles. 3,479,055, 11-18-69, Cl. 280-407.
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Cunningham, Ernest R., to Illinois Tool Works, Inc. Selective braking system for four wheel drive vehicles. 3,466,096, 9-9-69, Cl. 303-6.
Cunningham, Ernest R. Earth moving apparatus with vibrating cutting edge. 3,478,450, 11-18-69, Cl. 37-141.
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Cunningham, Gerald A., to Colorado Outdoor Sports Corporation. Tent pole assembly or the like. 3,447,549, 6-3-69, Cl. 135-15.
Cunningham, Henry L.: *See—*
Parsons, Hubert J.; and Cunningham, Henry L.,3,464,292.
Cunningham, Jack: *See—*
Ross, Edward E.; and Cunningham, Jack,3,455,307.
Cunningham, James, & Son, Co., Inc.: *See—*
Mustafa, Farid M., 3,427,575.
Cunningham, James J.; Hall, Webster F.; and Myers, Allen J., to National Automatic Tool Co., Inc. Side quench mechanism for induction intensifiers. 3,466,023, 9-9-69, Cl. 266-4.
Cunningham, James M., to International Business Machines Corporation. Printer platen control system. 3,451,335, 6-24-69, Cl. 101-93.
Cunningham, John W., to Air Reduction Company, Incorporated. Pulsed welding and cutting by variation of composition of shielding gas. 3,484,575, 12-16-69, Cl. 219-74.
Cunningham, Leslie L.: *See—*
Hart, William E.; Allen, William A.; and Cunningham, Leslie L.,3,434,211.
Cunningham, Mc Cleery B.; and Dunlap, Charles K., Jr., to Sonoco Products Company. Forming tube for glass fibers. 3,451,433, 6-24-69, Cl. 138-144.
Cunningham, McCleery B., to Sonoco Products Company. Method of making a wound multi-ply paper tube. 3,430,543, 3-4-69, Cl. 93-94.
Cunningham, McCleery B.; and Dunlap, Charles K., Jr., to Sonoco Products Company. Forming tube for glass fibers. 3,429,522, 2-25-69, Cl. 242-118.32
Cunningham, McCleery B.; and Dunlap, Charles K., Jr., to Sonoco Products Company. Forming tube for glass fibers. 3,455,521, 7-15-69, Cl. 242-118.32
Cunningham, Patrick J., to Bell & Howell Company, mesne. Combined motion picture projector support and structural brace. 3,454,167, 7-8-69, Cl. 211-88.
Cunningham, Patrick J., to Bell & Howell Company, mesne. Motion picture projector with viscous switch for controlling projection lamp. 3,479,113, 11-18-69, Cl. 352-167.
Cunningham, Peter B., to Bell Telephone Laboratories, Incorporated. Balanced differential amplifier with improved longitudinal voltage margin. 3,461,397, 8-12-69, Cl. 330-30.
Cunningham, Robert A.: *See—*
McElya, Fred H.; and Cunningham, Robert A.,3,442,342.
Cunningham, Sheldon A.; and Marwil, Stanley J., to Phillips Petroleum Company. Polyolefin recovery from solution by flashing and chopping. 3,457,248, 7-22-69, Cl. 260-93.5
Cunningham, Sinclair Upton: *See—*
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Firth, Donald; Cunningham, Sinclair; and Hair, Hugh,3,456,533.
Cunningham, Thomas W., to Baldwin, D. H., Company. Chiff and tone generator. 3,445,578, 5-20-69, Cl. 84-1.04
Cunningham, Thomas W., to Baldwin, D. H., Company. Celeste system for a locked-octave electronic organ. 3,450,825, 6-17-69, Cl. 84-1.24
Cunningham, Thomas W., to Baldwin, D. H., Company. Low-pitched voices in electronic organs. 3,476,866, 11-4-69, Cl. 84-1.26
Cunningham, Wesley B. Electrically actuated demolition device. 3,436,121, 4-1-69, Cl. 299-70.
Cunningham, William J., to Allied Chemical Corporation. Method for combatting growth of undesirable vegetation. 3,453,100, 7-1-69, Cl. 71-124.
Cunningham, William J.; and Woolf, Cyril, to Allied Chemical Corporation. Purification of perhaloacetones. 3,433,838, 3-18-69, Cl. 260-593.
Cunningham, William J.: *See—*
Sweeney, Richard F.; and Cunningham, William J.,3,442,952.
Cuny, Florian B.: *See—*
Byrnes, James H.; and Cuny, Florian B.,3,473,270.
Cuny, Robert: *See—*
Rauhut, Paul; Glavitsch, Johann; and Cuny, Robert,3,471,708.
Cupler, John A., II. Apparatus for conducting machining operations. 3,478,419, 11-18-69, Cl. 29-568.
Cupler, Melvin C. Friction wrench. 3,444,767, 5-20-69, Cl. 81-63.1
Cupp, Charles D., to Automatic Sprinkler Corporation of America, mesne. Valve assembly for breathing apparatus. 3,431,931, 3-11-69, Cl. 137-102.
Cupp, Charles D., to Automatic Sprinkler Corporation of America. Valve assembly for breathing apparatus. 3,431,932, 3-11-69, Cl. 137-102.
Cupp, Charles D., 'Automatic' Sprinkler Corporation of America, mesne. Demand actuating means for alternate breathing supply. 3,456,642, 7-22-69, Cl. 128-142.2
Cupp, Charles D., 'Automatic' Sprinkler Corporation of America, mesne. Means for dispersing gases exhaled from underwater breathing apparatus. 3,474,782, 10-28-69, Cl. 128-142.
Cupp, Samuel B.: *See—*
Bacon, Osborne C.; and Cupp, Samuel B.,3,431,132.
Cuppers, Curt W.; and Kirchhubel, Kurt. Apparatus for use in coordinating eccentrically focussing eyes with a healthy eye. 3,481,330, 12-2-69, Cl. 128-76.5
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Cuppini, Ubaldo C. M. Di & Co. Soc. Acc. Sempl.: *See—*
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Cupples Container Company: *See—*
Morin, Joseph C., 3,469,459.
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Ronden, Clifford P., 3,471,899.
Ronden, Clifford P., 3,482,280.
Curati, Hershel L.: *See—*
Swickad, James L.; and Curati, Hershel L.,3,461,495.
Curchack, Herbert D., to United States of America, Army. Artillery simulator. 3,444,733, 5-20-69, Cl. 73-167.
Curcio, Raymond J.: *See—*
Dobranski, Stephen F.; and Curcio, Raymond J.,3,468,027.
Curd, Ralph B.: *See—*
Grandinetti, Attilio; Curd, Ralph B.; and Dimen, James,3,424,635.
Cure, John Raymond, to Associated Electrical Industries Limited. Means for preventing excessive current flow between A.C. power networks. 3,487,264, 12-30-69, Cl. 371-14.
Cure, Ronald William Lewis, to Westland Aircraft Limited. Rotor heads for rotary wing aircraft. 3,470,962, 10-7-69, Cl. 170-160.53
Cureton, Francis M.; and McManus, Jackson L., to Electro-Matic Corporation. Variable count and slubbing apparatus and method. 3,449,899, 6-17-69, Cl. 57-38.3
Cureton, William E.: *See—*
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Curl, Garold W.: *See—*
Sanders, Ray W.; Broderick, Donald L.; and Curl, Garold W.,3,486,118.
Curl, Gerald A., to Coastal Dynamics Corporation. Miniature light structure. 3,450,870, 6-17-69, Cl. 240-8.16
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Curlee, John W. Random motion recreation vehicle. 3,460,828, 8-12-69, Cl. 272-33.
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Curlee, Sandy T., 3,468,506.
Curlee, Sandy T., to Curlee Machinery Company, Inc. Bracket. 3,468,506, 9-23-69, Cl. 248-221.
Curler, Howard J.; and Lineburg, Glenn E., to Curwood, Inc. Flexible wrapping material. 3,445,324, 5-20-69, Cl. 161-165.
Curlett, John, to Gurries Manufacturing Co. Transmission. 3,439,553, 4-22-69, Cl. 74-409.
Curley, Edward J.: *See—*
Brosnahan, Robert E.; and Curley, Edward J.,3,451,014.
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Papendick, Paul; and Curley, Henry,3,464,541.
Curlock, Walter; O'Neill, Charles E.; and Queneau, Paul E., to International Nickel Company, Inc., The. The Recovery of nickel from nickel-containing sulfide materials. 3,468,629, 9-23-69, Cl. 23-203.
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Curnan, Hugh J.: *See—*
O'Connell, James A.; Zaratkiewicz, Edwin A.; and Curnan, Hugh J.,3,481,306.

Curphey, David G.; and Fowler, William J., to FMC Corporation. Presorting method and apparatus. 3,432,032, 3-11-69, Cl. 209-73.
Curran, Bernard E.: *See—*
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Curran, Bernard E., to Robertson, H. H., Company. Field erected insulated wall structure. 3,482,367, 12-9-69, Cl. 52-309.
Curran, Daniel R.; Gerber, William J.; and Williams, Alfred L. W., to Clevite Corporation. Piezoelectric resonator. 3,423,700, 1-21-69, Cl. 333-72.
Curran, Daniel R.; and Smith, James A., to Clevite Corporation. Resonator supporting structure. 3,453,458, 7-1-69, Cl. 310-9.1
Curran, Edward E.: *See—*
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Curran, Frank J., Co.: *See—*
Curran, Frank J., 3,424,380.
Curran, Frank J., 3,443,083.
Curran, Frank J., to Curran, Frank J., Co. Package and support therefor. 3,424,380, 1-28-69, Cl. 239-60.
Curran, Frank J., to Curran, Frank J., Co. Vaporizing light shield and combined night light vaporizer. 3,443,083, 5-6-69, Cl. 240-2.
Curran, John Patrick Stewart, to Lucas, Joseph, (Industries) Limited. Variable flow metering devices. 3,426,801, 2-11-69, Cl. 138-46.
Curran, John R., to International Telephone and Telegraph Corporation. Electromechanical actuator. 3,461,736, 8-19-69, Cl. 74-424.8
Curran, Michael G. Multiple-belt seat harness. 3,463,545, 8-26-69, Cl. 297-389.
Curran, Michael G. Safety harness buckle. 3,482,288, 12-9-69, Cl. 24-75.
Curran, Robert A., to Solitron Devices, Incorporated, mesne. Fluidized bed coating process and apparatus. 3,483,011, 12-9-69, Cl. 117-21.
Curran, Robert E.: *See—*
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Curran, William W., to Benton & Bowles, Inc. Hat with voice amplifying system. 3,422,224, 1-14-69, Cl. 179-1.
Currat, Emile. Bracelet clasp. 3,445,900, 5-27-69, Cl. 24-71.
Curren, John L. Domestic hot water generator. 3,477,503, 11-11-69, Cl. 165-154.
Current Control Devices, Inc.: *See—*
Chase, William L., 3,458,759.
Current, James H., to Camco, Incorporated. Multi-latch dual production well packer. 3,450,205, 6-17-69, Cl. 166-189.
Current, James H., to Schlumberger Technology Corporation, mesne. Well tool with expansible anchor and friction drag. 3,467,186, 9-16-69, Cl. 166-216.
Current, James H.; and Ehlert, Harry C., to Camco Incorporated. Hydraulically set well packer. 3,456,723, 7-22-69, Cl. 166-120.
Currey, Charles F.; and Rydin, Roger A., to Westinghouse Electric Corporation. Temperature control for a nuclear reactor. 3,423,285, 1-21-69, Cl. 176-24.
Currey, John E., to Hooker Chemical Corporation. Support system for electrolytic cells. 3,425,927, 2-4-69, Cl. 204-242.
Currey, John E., to Hooker Chemical Corporation. Current conducting members for electrolytic cell. 3,432,422, 3-11-69, Cl. 204-258.
Currey, John E., to Hooker Chemical Corporation. Cathodic protection of reinforcing metals in electrolytic cells. 3,475,304, 10-28-69, Cl. 204-147.
Currey, John E.: *See—*
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Hooker, Thomas; and Currey, John E.,3,434,948.
Currie, Andrew Cochran; and Dinwoodie, Andrew Harper, to United States of America, Navy, mesne. Dinitroimidazolidin-2-one derivatives. 3,468,903, 9-23-69, Cl. 260-309.7
Currie, Grover C., Jr., to Weyerhaeuser Company. Packaging machine. 3,430,412, 3-4-69, Cl. 53-48.
Currie, Harold B.: *See—*
Silverman, Bernard P.; and Currie, Harold B.,3,465,288.
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Reid, Harry, Jr.; and Currie, James R.,3,487,288.
Currie, Robert B.; Sellinger, Martin S.; and Villaume, Henry F., to Air Products and Chemicals, Inc. Cryogenic refrigeration system. 3,422,632, 1-21-69, Cl. 62-45.
Currie, William E., to Honeywell Inc. Transducer control apparatus. 3,454,923, 7-8-69, Cl. 340-8.
Currie, William E.; and Mettert, Paul M., to Honeywell Inc. Function generating apparatus. 3,465,257, 9-2-69, Cl. 328-185.
Currier, Emery W.: *See—*
Shanefield, Daniel J.; Battle, James H.; and Currier, Emery W.,3,453,583.
Currier, Gerald F., 50% to Lindquist, Richard H. Destructible article for reserving a recess in concrete. 3,421,551, 1-14-69, Cl. 138-178.
Currier, John A., to Scott & Williams, Incorporated, mesne. Knitted products. 3,475,925, 11-4-69, Cl. 66-187.
Currin, Cedric G., to Dow Corning Corporation. Large volume semiconductor coating reactor. 3,460,510, 8-12-69, Cl. 118-48.
Currin, Cedric G.; Herczog, Andrew; and Settzo, Robert J., to Corning Glass Works. Monolithic thin-film devices with active and resistive regions. 3,474,304, 10-21-69, Cl. 317-234.
Curriston, Loren E.; and Draugelis, Bronius M., to North American Rockwell Corporation. Reduced-power motor operation. 3,463,986, 8-26-69, Cl. 318-166.
Curry, Byrl E.; Dehne, Clarence A.; and Farley, Joseph W., to Webb, Jervis B., Company. Conveyor carrier with selectively operable dogs. 3,451,352, 6-24-69, Cl. 104-172.
Curry, Charles E. Gas analyzer. 3,476,516, 11-4-69, Cl. 23-254.
Curry, Jack A. Eyeglass temples having adjustable ear-engaging bars. 3,476,467, 11-4-69, Cl. 351-123.
Curry, James W., to Texas Instruments Incorporated. Method for preparation of cyclic diorganosiloxanes. 3,432,538, 3-11-69, Cl. 260-448.2
Curry, James W., to Texas Instruments, Incorporated. Method for preparation of cyclic organohydrosiloxane. 3,484,468, 12-16-69, Cl. 260-448.2
Curry, Janet C.; and Dudley, Wilton V., to Lever Brothers Company. Multiple inoculation device. 3,455,788, 7-15-69, Cl. 195-139.
Curry, Kenneth Vasey, to Lever Brothers Company. Shampoos. 3,457,175, 7-22-69, Cl. 252-89.
Curry, Leonard O. Apparatus for the support and movement of radiographic equipment on an elongated pipe. 3,445,655, 5-20-69, Cl. 250-65.
Curry, Leonard O. X-ray tube housing consisting of a dielectric material with an electrically conductive liner. 3,473,028, 10-14-69, Cl. 250-87.
Curry, Philip E., to Monsanto Company. Joining fabric seams with thermoplastic materials. 3,420,725, 1-7-69, Cl. 156-305.
Curry, Robert P.; and Geddes, James C., Jr., to Ethyl Corporation. Phenol alkylation process. 3,426,082, 2-4-69, Cl. 260-624.
Curry, William H.: *See—*
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Curry, William J., Jr., to Globe Refractories, Inc. Ladle valve. 3,464,598, 9-2-69, Cl. 222-559.
Curry, Winstor W., to Ewing-Record & Associates, Inc. Self-raising cantilever steel forms for mass concrete. 3,437,305, 4-8-69, Cl. 249-10.
Curtenius, Frederick B. Tractor propelled mower with fixed cutters. 3,427,792, 2-18-69, Cl. 56-229.
Curtice, Gerald M.; and Taft, David D., to Ashland Oil & Refining Company, mesne. Water-dispersible polyalkylene glycol modified drying oil alkyd. 3,442,835, 5-6-69, Cl. 260-22.
Curtin, Frank M. Automatic deep fat frying machine. 3,474,726, 10-28-69, Cl. 99-404.
Curtin, John Hedley; and Gagolski, Julian, to Colonial Sugar Refining Company Limited, The. Process for the manufacture of phosphoric esters of carbohydrates and of polyhydric alcohols. 3,437,653, 4-8-69, Cl. 260-234.
Curtin, Thomas D.: *See—*
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Curtin, William J. Telephone answering system providing multiple answering points with centralized or decentralized operation. 3,446,919, 5-27-69, Cl. 179-27.
Curtis 1000 Inc.: *See—*
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Curtis & Marble Machine Co.: *See—*
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Curtis, Donald J., to Rosemount Engineering Company. Standard thermometer. 3,482,199, 12-2-69, Cl. 338-28.
Curtis, Donald R., to Allis-Chalmers Manufacturing Company. Remote controlled headbox slice. 3,463,701, 8-26-69, Cl. 162-347.
Curtis Dyna-Products Corporation: *See—*
Curtis, Russell R.; Schlensker, Albert L.; and Jung, James E., 3,458,948.
Curtis, Edward Wesley; and Jobe, Thornley C., to RCA Corporation. Phase shifting circuits for color television receivers. 3,454,708, 7-8-69, Cl. 178-5.4
Curtis, Frank F.: *See—*
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Curtis, Frank W., to Lexsuco, Inc. Fire retardant insulative structure and roof deck construction comprising the same. 3,466,222, 9-9-69, Cl. 161-160.
Curtis, Hazen, III; and Tuchen, Gerd A., to Bell Telephone Laboratories, Incorporated. Holder for mounting elements within a waveguide. 3,487,340, 12-30-69, Cl. 333-81.
Curtis, Helene, Industries, Inc.: *See—*
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Curtis Instruments Inc.: *See*—
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Curtis, James Patrick: *See*—
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Curtis, John G., to Corning Glass Works. Method of forming an electrical resistance element. 3,468,011, 9-23-69, Cl. 29-620.
Curtis, Johnnie J.; and Sandvick, Robert M., said Curtis assor. to said Sandvick. Pipe laying apparatus. 3,486,214, 12-30-69, Cl. 29-237.
Curtis, Larry L.; O'Gorman, Thomas M.; and Cox, Bing A. Balanced bearing sailboat traveler. 3,438,349, 4-15-69, Cl. 114-102.
Curtis Manufacturing Company: *See*—
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Curtis, Marland G. Sample screening plant. 3,425,552, 2-4-69, Cl. 209-239.
Curtis, Mary Lou: *See*—
Curtis, William L.; and Curtis, Billy Dean, 3,467,224.
Curtis, Norman S.: *See*—
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Curtis One Thousand: *See*—
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Curtis, Ralston; and Lukes, George E., deceased0 (by Jaeschke, Wayne C.; administrator), to Stauffer Chemical Company. Microbiocide and herbicidal compositions containing alkyliminodithiocarbonates and alkalisalts thereof. 3,482,960, 12-9-69, Cl. 71-100.
Curtis, Richard F., to Crouse-Hinds Company. Traffic signal system. 3,434,016, 3-18-69, Cl. 317-123.
Curtis, Robert. Aqua-tube sub-surface irrigation. 3,426,544, 2-11-69, Cl. 61-13.
Curtis, Russell R.; Schlensker, Albert L.; and Jung, James E., to Curtis Dyna-Products Corporation. Apparatus for producing an aerosol. 3,458,948, 8-5-69, Cl. 43-129.
Curtis, S., & Son, Incorporated: *See*—
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Curtis, Stanley R., to Tru-Lay Masonry Products Corporation. Grooved brick construction and composite thereof. 3,427,774, 2-18-69, Cl. 52-284.
Curtis, Thomas E., to Chance, A. B., Company. Encapsulated switch assembly for underground electric distribution service. 3,471,669, 10-7-69, Cl. 200-168.
Curtis, Thomas E., to Chance, A. B., Company. Corona free spark gap. 3,487,255, 12-30-69, Cl. 313-313.
Curtis, Truman P., to General Electric Company. Composite magnet structure. 3,454,825, 7-8-69, Cl. 315-39.71
Curtis, William L.; and Curtis, Billy Dean, 51% to Curtis, Mary Lou, and 49% to Contractors Services, Inc. Cable safety clamping device for oil wells and the like. 3,467,224, 9-16-69, Cl. 188-65.1
Curtiss, Alan Clarkson, to Hersey-Sparling Meter Company. Relief valve. 3,448,763, 6-10-69, Cl. 137-494.
Curtiss, Alan Clarkson; and Hood, Roger Williams, to Hersey-Sparling Meter Company. Clapper valve with changing bias. 3,478,778, 11-18-69, Cl. 137-527.4
Curtiss, Lawrence M.; Castellani, Edward J.; and Frey, William G., to Thomas & Betts Corporation. Grounding sheath connector. 3,446,910, 5-27-69, Cl. 174-75.
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Bentele, Max; Biehl, Richard E.; and Loprete, Joseph F., 3,456,445.
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Slepitis, Justin F., 3,420,716.
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Curtius, Ulrich; and Schnell, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Quaternary ammonium ph osphonium and arsonium catalysts for the production of polycarbonates by the transesterification method. 3,442,854, 5-6-69, Cl. 260-47.
Curtland, Floyd E., to Lear Siegler, Inc. Reel assembly. 3,476,330, 11-4-69, Cl. 242-45.
Curtze, Edward W.; Huffman, Charles O.; and Mikus, Clifford A., to PPG Industries, Inc. Automatically sizing and severing glass sheets. 3,424,357, 1-28-69, Cl. 225-2.
Curtze, Edward W.; Wehner, George O.; and Barsom, John M., to PPG Industries, Inc. Method and apparatus for severing glass sheets. 3,454,219, 7-8-69, Cl. 225-1.
Curwen, Kenneth Robert, to Kollsman Instrument Corporation. Engine life recorder. 3,482,440, 12-9-69, Cl. 73-116.
Curwood, Inc.: *See*—
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Cuscino, Thomas A., to United States Steel Corporation. Vertical continuous casting assembly having a torch cut-off apparatus. 3,428,112, 2-18-69, Cl. 164-154.
Cushing, Donald S., to General Electric Company. Control system for an automatic dishwasher. 3,439,687, 4-22-69, Cl. 134-57.
Cushing, Donald S., to General Electric Company. Dishwashing machine. 3,451,400, 6-24-69, Cl. 134-58.
Cushing, Donald S.; and Jenkins, Thomas E., to General Electric Company. Pump for dishwasher. 3,434,671, 3-25-69, Cl. 241-46.
Cushing, Philip S.; and Stone, Harris E. Method of making cap for paper core. 3,449,817, 6-17-69, Cl. 29-416.
Cushing, Prentice, Jr., to Heller, G. K., Corporation. Speed control circuits for electric motors. 3,466,522, 9-9-69, Cl. 318-331.
Cushing, Russell Emery, to Pennsalt Chemicals Corporation. Electropneumatic transducer. 3,480,031, 11-25-69, Cl. 137-82.
Cushing, Vincent J. Electromagnetic flowmeter including hum compensation means. 3,479,871, 11-25-69, Cl. 73-194.
Cushioncraft Limited St. Helens: *See*—
Winter, Peter Heron, 3,481,423.
Cushman Electronics, Inc.: *See*—
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Cushman, James E.: *See*—
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Cushman, Le Roy T.; Wu, Joseph C.; and Welte, Robert F., to Cushman Electronics, Inc. Frequency generating and measuring apparatus. 3,487,313, 12-30-69, Cl. 325-134.
Cushman, Robert H., to Western Electric Company, Incorporated. Pressure sealing. 3,439,731, 4-22-69, Cl. 164-108.
Cushman, Robert Holbrook, to Western Electric Company, Incorporated. Terminating and encapsulating devices in a single manufacturing operation. 3,434,201, 3-25-69, Cl. 29-527.
Cushman, Robert Holbrook, to Western Electric Company, Incorporated. Sensing device. 3,439,536, 4-22-69, Cl. 73-159.
Cushman, Robert Holbrook, to Western Electric Company, Incorporated. Compensating base for simultaneously bonding multiple leads. 3,448,911, 6-10-69, Cl. 228-44.
Cushman, Robert; and Wasco, Anthony, Jr., to Saginaw Machine and Tool Company. Mounting pin assembly. 3,432,214, 3-11-69, Cl. 308-15.
Cushwa, George Victor. Apparatus for manufacturing brick. 3,465,395, 9-9-69, Cl. 25-2.
Cusi, Eduardo L., to Sarco Company, Inc. Self cleaning guide bushing. 3,470,899, 10-7-69, Cl. 137-238.
Cusick, Richard T., to United States of America, Navy, mesne. Switch for high energy circuits utilizing contact bounce reduction. 3,472,984, 10-14-69, Cl. 200-166.
Cussen, Arthur J., to Electro-Optical Industries, Inc. Temperature control arrangement. 3,476,914, 11-4-69, Cl. 219-499.
Cussen, Arthur J., to Electro-Optical Industries, Inc. Electromagnetic radiation emission device for generating black body electromagnetic radiation. 3,487,217, 12-30-69, Cl. 250-85.
Cussen, Arthur John; and Chandos, Robert Eugene, to Electro-Optical Industries, Inc. Absolute radiation calorimeter arrangement. 3,474,249, 10-21-69, Cl. 250-83.3
Custance, Raymond J. Motorized friction drive mower. 3,433,002, 3-18-69, Cl. 56-26.
Custard, George H., to United States of America, Army, mesne. Incendiary projectile. 3,421,439, 1-14-69, Cl. 102-66.
Custard, Herman C., to Mobil Oil Corporation. Apparatus for measuring gravity. 3,485,103, 12-23-69, Cl. 73-382.
Custard, Herman C.: *See*—
Faris, Sam R.; and Custard, Herman C.,3,481,206.
Custer, George M., to Hennessy Products, Inc. Boxcar door control. 3,468,062, 9-23-69, Cl. 49-362.
Custer, Lloyd R.: *See*—
Bell, Richard J.; Campbell, Robert L.; Brust, Albert E.; and Custer, Lloyd R.,3,455,699.
Custer, Richard W.: *See*—
Liskey, Ernest C., Jr.; and Custer, Richard W.,3,420,012.
Custer, Robert E., to General Motors Corporation. Potential regulator circuit. 3,427,528, 2-11-69, Cl. 321-18.
Custer, Stroud S., Jr., to Bell Telephone Laobratories, Incorporated. AM/PM conversion testing by transmitting high and low amplitude signals of different frequencies through the device under test and measuring the phase modulation induced in the low level signal. 3,437,921, 4-8-69, Cl. 324-58.
Custom Alarm and Manufacturing Co.: *See*—
Campana, Nicholas L.; Campano, Frank J.; and Lombardi, Louis F., 3,486,166.
Custom Engineering & Manufacturing Corporation: *See*—
Glasgow, Clarence O.; and Bucklin, Charles A., 3,443,789.
Custom Packaging, Inc.: *See*—
Garvey, John H., 3,469,344.
Custom Trim Products Inc.: *See*—
Kunevicius, Alex, 3,439,950.
Customark Corporation: *See*—
Skofronick, Bruce D., 3,441,427.
Skofronick, Bruce D., 3,443,979.

Skofronick, Bruce D., 3,464,841.
Skofronick, Bruce D., 3,486,923.
Customized Sealers Corporation: *See—*
Cooper, Kermit H., 3,428,512.
Cutcliffe, John E., to Peen Plate, Inc. Metal plating by a wet mechanical process. 3,443,985, 5-13-69, Cl. 117-109.
Cuthill, James Caithness: *See—*
Bamford, William Randall; and Cuthill, James Caithness,3,464,937.
Cuthill, James Caithness; and Thompson, James Mc Allan Cormack, to Imperial Chemical Industries Limited. Diorganopolysiloxane compositions. 3,440,191, 4-22-69, Cl. 260-18.
Cutkosky, Harold C. Reciprocating internal combustion electric generator. 3,465,161, 9-2-69, Cl. 290-1.
Cutler, Bertie Burger. Dry mop. 3,453,677, 7-8-69, Cl. 15-104.94
Cutler Controls, Inc.: *See—*
Auger, Raymond N., 3,422,666.
Auger, Raymond N., 3,460,375.
Cutler, Leonard S.: *See—*
Bagley, Alan S.; Cutler, Leonard S.; and Rando, Joseph F.,3,458,259.
Cutler, Morris: *See—*
Tamarin, Bernard J., 3,450,143.
Cutler, Royal A.; and Schalit, Samuel, to Sterling Drug Inc. Bridged bis-biguanides and bis-guanidines. 3,468,898, 9-23-69, Cl. 260-301.
Cutler-Hammer, Inc.: *See—*
Becknell, James L., 3,451,017.
Brown, Harry W.; and Thompson, Larry D., 3,447,057.
Brown, William E.; and Garnier, John J., 3,460,475.
Carter, Uriel F.; Kolb, Arthur F.; and Kunath, Elmer M., 3,478,292.
Coote, John M., 3,434,109.
Drees, John F.; and Kunath, Elmer M., 3,428,764.
Hanson, James R.; and Kolb, Arthur F., 3,478,179.
Hubbard, Charles J., 3,477,789.
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Hyer, Frank S.; and Tolan, Peter J., 3,477,533.
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Kaylie, Harvey L., 3,464,006.
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Koertge, Nobel H., 3,437,773.
Koertge, Nobel H., 3,453,571.
Koertge, Nobel H., 3,483,434.
Kurpis, Gediminas P.; and Taub, Jesse J., 3,487,337.
Leslie, Myron W., 3,463,614.
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Mading, James E.; and Waldorf, Joseph F., 3,448,226.
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Piber, Earl T., 3,437,772.
Piber, Earl T., 3,437,775.
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Siebers, Robert W.; and Spink, Robert W., 3,437,841.
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Cutrone, John N. Automatic reversible electric motor tool. 3,441,965, 5-6-69, Cl. 10-89.
Cutter, Paul R.; and Hamilton, Donald N., to Diamond Shamrock Corporation. Acid leaching of phosphate rock on an imperforate rubber belt. 3,420,638, 1-7-69, Cl. 23-312.
Cutters Machine Company, Inc.: *See—*
Martin, Thomas W., 3,460,774.
Martin, Thomas W., Sr.; Rogers, Asa Scobey, Jr.; and Ashton, Shirley B., 3,468,529.
Martin, Thomas W., Sr.; Rogers, Asa Scobey, Jr.; and Ashton, Shirley B., 3,479,023.
Rogers, Asa Scobey, Jr., 3,464,689.
Cutting Room Appliances Corporation: *See—*
Merrill, Edward M., 3,435,921.
Merrill, Edward M., 3,458,185.
Scordato, Emil A., 3,456,895.
Cuttino, William H., to Westinghouse Electric Corporation. High speed interphase switching arrangement. 3,473,089, 10-14-69, Cl. 317-12.
Cuvelier, Jean, to Ateliers de Constructions Electriques de Charleroi (ACEC) Societe Anonyme. Device for the transmission by teleprinter. 3,483,321, 12-9-69, Cl. 178-26.
Cuzin, Daniel; Chauvin, Yves; and Lefebvre, Gilles, to Institut Francais du Petrole des Carburants et Lubrifiants. Stereospecific polymerization of 2-methyl-1, 3-pentadiene. 3,476,731, 11-4-69, Cl. 260-94.2
Cvach, Jaroslav, to Elitex, Sdruzeni podniku textilniho strojirenstvi. Electrical warp stop motion for textile machine. 3,429,146, 2-25-69, Cl. 66-163.
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Sand, Max; and Cvejanovich, George J.,3,447,070.
Cvetko, Henry J., to Astatic Corporation, The. Tapered fingers for resonant peak damping in piezoelectric transducers. 3,423,542, 1-21-69, Cl. 179-100.41
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Hood, Charles B., Jr.; and Simons, Ira W., 3,477,434.
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Maier, Dale E.; Van Stelle, Richard; and Cwik, Joseph A.,3,456,482.
Cwikla, Martin V.: *See—*
Klinger, Guenther H.; and Cwikla, Martin V.,3,429,708.
Cwycyshyn, Walter: *See—*
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Cyba, Henryk A., to Universal Oil Products Company. Antioxidant mixture of boron ester of an alkanolamine and a hydroxyphenone, and use thereof. 3,422,016, 1-14-69, Cl. 252-49.6
Cyba, Henryk A., to Universal Oil Products Company. Plastic and resin stabilized with borates of alkanolamines. 3,428,469, 2-18-69, Cl. 106-186.
Cyba, Henryk A., to Universal Oil Products Company. Preparation of polycyclic hydrocarbons. 3,428,700, 2-18-69, Cl. 260-670.
Cyba, Henryk A., to Universal Oil Products Company. Organic substrates containing borate of polyalkyl-polyhydroxy-alkyl-alkylenepolyamine. 3,445,422, 5-20-69, Cl. 260-45.9
Cyba, Henryk A., to Universal Oil Products Company. Boric acid esters. 3,445,498, 5-20-69, Cl. 260-462.
Cyba, Henryk A., to Universal Oil Products Company. Borates of N-hydroxyalkyl-nitrogen-heterocyclic saturated compounds. 3,446,808, 5-27-69, Cl. 260-250.
Cyba, Henryk A., to Universal Oil Products Company. Esters of polyhalopolyhydropolycyclic- dicarboxylic acids and a method for the preparation thereof. 3,474,125, 10-21-69, Cl. 260-468.
Cyba, Henryk A., to Universal Oil Products Company. Sec.-alkyl- or cycloalkyl-alkoxyalkylamines. 3,478,096, 11-11-69, Cl. 260-563.
Cyba, Henryk A., to Universal Oil Products Company. Arylaminoalkyl phosphites. 3,480,698, 11-25-69, Cl. 260-945.
Cyba, Henryk A., to Universal Oil Products Company. Stabilization or organic substances. 3,484,374, 12-16-69, Cl. 252-32.7
Cyba, Henryk A., to Universal Oil Products Company. Addition reaction product of oxyalkylenated phosphorus compounds and N-containing polymers and use thereof. 3,484,504, 12-16-69, Cl. 260-925.
Cyba, Henryk A., to Universal Oil Products Company. Addition reaction product of oxyalkylenated phosphorus compound and N-polymer of epihalohydrin and amine and use thereof. 3,484,505, 12-16-69, Cl. 260-925.
Cyba, Henryk A.; and Sparks, Allen K., to Universal Oil Products Company. N,N'-bis-imides of polyhalosubstituted polyhydropolycyclicdicarboxylic acids. 3,455,950, 7-15-69, Cl. 260-326.
Cygnor, John E.: *See—*
Noell, Godwin L.; Cygnor, John E.; and Sundberg, Jack G.,3,437,048.
Cymara, Hermann K. Silo structure and loading and unloading means therefor. 3,443,700, 5-13-69, Cl. 214-17.
Cymbalisty, Lubomyr M. O.:, 30% to Cities Service Athabasca, Inc., 30% to Imperial Oil Limited, 30% to Atlantic Richfield Corporation, and 10% to Royalite Oil Company, Limited. Solid interphase indicator controller. 3,430,814, 3-4-69, Cl. 222-64.
Cymbalisty, Lubomyr M. O., 30% to Cities Service Athabasca, Inc. 30% to Imperial Oil Limited 30% to Atlantic Richfield Company, and 10% to Royalite Oil Company. Discharge valve pulsator system. 3,433,245, 3-18-69, Cl. 137-242.
Cymmer, Thomas: *See—*
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Cyphelly, Ivan Jaroslav. Rotary piston machine. 3,447,471, 6-3-69, Cl. 103-125.
Cyphert, Henry. Feeding dispenser. 3,467,280, 9-16-69, Cl. 222-57.
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Cyril Bath Company, The: *See—*
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Brauer, Edwin H.; and Huggett, T. Virgil, 3,426,569.
Brauer, Edwin H., 3,448,603.
Mackenzie, Robert A., 3,452,573.
Mackenzie, Robert A., 3,452,574.
Cyrway, Edward N., Jr.; and Metalsky, William J., to Abar Corporation. Electric resistance heating elements. 3,476,862, 11-4-69, Cl. 13-25.
Cytrin, Oscar, to Compagnie des Compteurs. Reversible driving device for magnetic tape recorders. 3,482,840, 12-9-69, Cl. 274-4.
Cywinski, Norbert F., to El Paso Products Company. Process for producing pure hexamethylenediamine. 3,450,767, 6-17-69, Cl. 260-585.

Czachowska, Barbara: *See—*
Kokosinski, Jacek; Orlowski, Jan; Czachowska, Barbara; and Hancyk, Boleslaw,3,424,793.
Czaloun, Giovanni Gunter. Adhesion drive for automotive cable cars. 3,476,039, 11-4-69, Cl. 104-226.
Czarnecki, Adolph; Jones, Kenneth L.; and Michaels, Michael, to Standard Alliance Industries, Inc., mesne. Conveyor construction. 3,435,780, 4-1-69, Cl. 104-172.
Czarnecki, Jerzy J., to De Laval Turbine Inc. Compressor seal oil system with power recovery. 3,473,729, 10-21-69, Cl. 230-204.
Czarnecki, Jerzy J.; and Arkwright, Peter, to De Laval Turbine, Inc. Pump. 3,476,053, 11-4-69, Cl. 103-44.
Czarnecki, John D., to Sherwin-Williams Company, The. Receptacles and method of making same. 3,448,891, 6-10-69, Cl. 220-74.
Czarnowski, Stanley R. Vapor deposition material support. 3,486,001, 12-23-69, Cl. 219-271.
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Czedik-Eysenberg, Peter: *See—*
Eichler, Friedrich; Seip, Paulus Johannes; and Czedik-Eysenberg, Peter,3,423,442.
Czegledy, Geza. Easy opener for can tops. 3,434,622, 3-25-69, Cl. 220-54.
Czehovsky, Gunther: *See—*
Hass, Karl; Kohlgagen, Walter; Czehovsky, Gunther; and Konermann, Hans-Ewald,3,436,324.
Czerna, Aladar L.: *See—*
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Czerniewicz, John F. Driven cutting tool. 3,477,481, 11-11-69, Cl. 144-144.
Czernin, Alexander Friedrich, to Pasolds Limited. Method of and apparatus for compressively shrinking fabric. 3,448,499, 6-10-69, Cl. 26-18.6
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Czigler, Steven R., to Robroy Industries. Adjustable clamp for elongated articles. 3,429,985, 2-25-69, Cl. 174-164.
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Kun, Leslie C.; and Czikk, Alfred M.,3,454,081.
Czingula, Janos. Automobile parking accident alarm system. 3,478,311, 11-11-69, Cl. 340-51.
Cziptschirsch, Kurt; and Mahler, Gert, to Gebr. Happich G.m.b.H. Device for the retracting of straps such as safety belts used in automobiles. 3,487,444, 12-30-69, Cl. 242-107.11
Cziska, Johann: *See—*
Querengasser, Hugo; Krause, Johannes; Frank, Klaus; and Cziska, Johann,3,431,103.
Czorny, Bohdan R.: *See—*
Blicher, Adolph; and Czorny, Bohdan R.,3,427,515.
Czorny, Bohdan R.; and Cave, Eric F., to Radio Corporation of America. PN-junction semiconductor with polycrystalline layer on one region. 3,443,175, 5-6-69, Cl. 317-235.
Czubak, Albin S.; and Militzer, Robert W., to Micromatic Hone Corporation. Method and apparatus for parallel face finishing. 3,456,402, 7-22-69, Cl. 51-326.
Czuszak, Charles C., to Carrier Corporation. Overspeed responsive steam turbine control valve. 3,461,893, 8-19-69, Cl. 137-31.
D-One Hundred and Fifty, Inc.: *See—*
Vetter, Richard H., 3,475,086.
Daams, Jasper, to U.S. Philips Corporation, mesne. Method of combating the growth of Echinochloa crusgalli. 3,472,645, 10-14-69, Cl. 71-90.
Daane, Robert A., to Beloit Corporation. Method and equipment for drying web material. 3,447,247, 6-3-69, Cl. 34-122.
Daane, Rose R. Ceramic tile scrubber. 3,444,576, 5-20-69, Cl. 15-28.
Dab-O-Matic Corp.: *See—*
Schwartzman, Gilbert, 3,438,554.
Dabinett, George B.: *See—*
Hetz, Heinz K.; Brand, Warren H.; and Dabinett, George B.,3,467,017.
Dabney, Eugene E.; Fields, James R.; Gerber, Loris L.; and Newins, Charles E., to Prescon Corporation, The. Apparatus for stressing tension members. 3,456,918, 7-22-69, Cl. 254-29.
Dabney, John B.: *See—*
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Beetle, Robert H.; and Dabney, John B.,3,480,070.
Dabrowski, John H.: *See—*
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Dachs, Karl; Wilhelm, Hans; Wick, Kurt; Schwenke, Wolfgang; and Naeder, Max, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Artificial limbs of expanded polyamides. 3,440,668, 4-29-69, Cl. 3-1.
Dachs, Karl: *See—*
Wilhelm, Hans; Bille, Heinz; Hann, Ernst Wilhelm; and Dachs, Karl,3,450,561.
Dachtler, Emil. Power operated clothes press. 3,477,153, 11-11-69, Cl. 38-41.
Daco, Inc.: *See—*
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Rickett, Edward, 3,430,285.
Dacons, Joseph C., to United States of America, Navy. Dodecanitroquaterphenyl. 3,450,778, 6-17-69, Cl. 260-645.
D'Acunto, Salvatore. Automatic dialling device. 3,454,725, 7-8-69, Cl. 179-90.
Dacus, Amon D., to Thompson Hayward Chemical Co. Control of rice blast disease on rice plants using triphenytin compounds. 3,483,295, 12-9-69, Cl. 424-288.
Dacus, Wilburn W.: *See—*
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D'Adamo, Joseph B., to General Electric Company. Cabinet for a television receiver. 3,446,546, 5-27-69, Cl. 312-323.
Daddis, Eugene, to American Shuffleboard Co., Inc. Ball game with blocking means and magnetic deflector. 3,424,456, 1-28-69, Cl. 273-11.
Daddona, Domenic J., Jr., to Scovill Manufacturing Company. Nonremovable tag. 3,470,637, 10-7-69, Cl. 40-20.
Daddona, Domenic J., Jr.; and Andrews, Hugh H., to Scovill Manufacturing Company. Waistband fastener. 3,454,994, 7-15-69, Cl. 24-224.
Dadds, Floyd S.: *See—*
Reinsma, Harold L.; Dadds, Floyd S.; and Johnson, Logan J.,3,463,560.
Dade Reagents, Inc.: *See—*
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Dadekian, Zaven A., to Baird Chemical Industries, Inc. Amime separation. 3,440,283, 4-22-69, Cl. 260-583.
Dadekian, Zaven A.; and Wilbourn, David S., to Baird Chemical Industries, Inc. Preparation of alkyl chlorides by the reaction of alkyl alcohols with phosphorus trichloride. 3,432,561, 3-11-69, Cl. 260-652.
Dadekian, Zaven A.; and Wilbourn, David S., to Baird Chemical Industries, Inc. Amination of alky halides. 3,471,561, 10-7-69, Cl. 260-583.
Dadekian, Zaven A.; and Wilbourn, David S., to Baird Chemical Industries, Inc. Preparation of trialkylamines. 3,472,900, 10-14-69, Cl. 260-585.
d'Adler-Racz, Joseph H., to Usiness Balteau Societe Anonyme. Compact and lightweight radiography apparatus. 3,465,152, 9-2-69, Cl. 250-90.
Dadura, James G., to Texaco Inc. Lubricating oil containing overbased sulfurized calcium alkylphenolate. 3,474,035, 10-21-69, Cl. 252-42.7
Dadura, James G.; Knowles, Edwin C.; and McCoy, Frederic C., to Texaco Inc. Lubricant compositions containing amine salts. 3,422,017, 1-14-69, Cl. 252-49.9
Dadura, James G.: *See—*
Hellmuth, Walter W.; Kivelevich, Doris; Dadura, James G.; and Morissette, Bertrand G.,3,480,548.
Dadykin, Georgy Fedetovich: *See—*
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Daellenbach, Francis O. Selective thinner for row crops. 3,444,933, 5-20-69, Cl. 172-6.
Daendliker, Gustav; and Fuerer, Heini, to Ciba Limited. Method for the manufacture of tantalum powder for condenser purposes. 3,430,108, 2-25-69, Cl. 317-230.
Daeniker, Hans Ulrich, to Ciba Corporation. 1-hydrazino-adamantan and salts thereof. 3,423,458, 1-21-69, Cl. 260-563.
Daeniker, Hans Ulrich, to Ciba Corporation. Phthalazinium compounds. 3,449,343, 6-10-69, Cl. 260-250.
Daeniker, Hans Ulrich, to Ciba Corporation. Novel phenylalanine compounds. 3,454,629, 7-8-69, Cl. 260-519.
Daeniker, Hans Ulrich: *See—*
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Wilhelm, Max; Daeniker, Hans Ulrich; Schenker, Karl; and Schmidt, Paul,3,480,640.
Wilhelm, Max; Daeniker, Hans Ulrich; Schenker, Karl; and Schmidt, Paul,3,483,221.
Daeuble, Manfred; Dieck, Klaus; Heinrich, Hans; and Witsch, Guenter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Dyeing and printing synthetic polyamide fibres. 3,478,376, 11-18-69, Cl. 8-55.
Daeuble, Manfred; Dieck, Klaus; Heinrich, Hans; Witsch, Heinz-Guenter; and Theilig, Dietmar, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Dyeing and printing fibers of natural and synthetic polyamides. 3,442,600, 5-6-69, Cl. 8-54.
Da Fano, Ettore, to Sierracin Corporation, The. Resin composition. 3,437,715, 4-8-69, Cl. 260-863.
Dafler, Gene L., to General Motors Corporation. Resilient snubber for governor assembly. 3,426,602, 2-11-69, Cl. 73-526.
Daggs, Kenneth L.: *See—*
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Daghe, Joseph L.: *See—*
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Daghistani, Ihsan Shakeeb. Water fountains for plane and concave sheets. 3,434,662, 3-25-69, Cl. 239-17.
Dagiel, Richard T.: *See—*
Bowden, George F.; and Dagiel, Richard T.,3,430,910.
Bowden, George F.; and Dagiel, Richard T.,3,467,054.
Dagiel, Richard T., to Symons Mfg. Company. Concrete form panel with snap-in facing. 3,477,684, 11-11-69, Cl. 249-189.
Daglian, John S.; Grace, John W.; and Clasen, Carl P., to United States of America, Army, mesne. Contradirectional waveguide coupler. 3,427,570, 2-11-69, Cl. 333-10.
Dagma Deutsche Automaten und Getrankemaschinen G.m.b.H. & Co.: *See—*
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Dagnall, Robert J.: *See—*
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Dagnoli, Donato F.; Jaeschke, Charles R.; and Hooks, Arthur K., to Sprague Electric Company. Component mounting assembly and method. 3,483,966, 12-16-69, Cl. 206-56.
D'Agostino, Jack V.:*See—*
Perini, Harry R.; Stangel, John J.; Timms, Robert J.; and D'Agostino, Jack V.,3,453,636.
D'Agostino, Michael V., to Radio Corporation of America. Emitter follower circuit having substantially constant current emitter supply. 3,431,505, 3-4-69, Cl. 330-14.
D'Agostino, Vincent Francis, to Arizona Chemical Company, mesne. Compositions containing tall oil pitch and epoxy ether resins. 3,445,409, 5-20-69, Cl. 260-18.
Dahan, Paul C., to Mobil Oil Corporation. Apparatus and process for confining floating liquid products. 3,476,246, 11-4-69, Cl. 210-83.
Dahill, Robert T., Jr.: *See—*
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Dahl, Einar S., to Outboard Marine Corporation. Lawn mower grass catching bag. 3,421,302, 1-14-69, Cl. 56-202.
Dahl, Erik Qvale, 1/2 to Grace, W. R., & Co., and 1/2 to Elektrokemisk, Inc. Process for pelletizing phosphate rock. 3,443,923, 5-13-69, Cl. 71-33.
Dahl, Ernest A., Jr. File container. 3,446,160, 5-27-69, Cl. 104-235.
Dahl, Ernest A., Jr. Magnetic index cards and method for producing same. 3,455,770, 7-15-69, Cl. 161-36.
Dahl, Ernest A., Jr. File structure. 3,465,460, 9-9-69, Cl. 40-105.5
Dahl, Ernest A., Jr. File container assembly. 3,477,567, 11-11-69, Cl. 209-111.8
Dahl, Frank L. Positionally adjustable trouble lamp means. 3,479,499, 11-18-69, Cl. 240-10.6
Dahl, Frank L. Retaining and snap-ring pliers with selectively usable tip means for cooperation with various different retaining and/or snap rings. 3,484,924, 12-23-69, Cl. 29-229.
Dahl, Gerd Helmut: *See—*
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Dahl, Gerd Helmut, to Pennsalt Chemicals Corporation. Tetra(phenylphosphinates) of titanium and zirconium. 3,426,050, 2-4-69, Cl. 260-429.3
Dahl, Hans, to Escher Wyss G.m.b.H. Fine-spreading and retarding device for the pulp suspension stream in a papermaking machine. 3,432,384, 3-11-69, Cl. 162-338.
Dahl, Henry A.: *See—*
Keur, Robert I.; and Dahl, Henry A.,3,465,351.
Dahl, James J.: *See—*
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Dalibor, Horst; and Kiessling, Hans-Joachim, to Reichhold Chemicals, Inc. Method of preparing soluble binders. 3,474,076, 10-21-69, Cl. 260-78.5
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Dall'Asta, Gino; and Carella, Giovanna, to Montecatini Edison S.p.A. Process for the polymerization of cyclolefins. 3,449,310, 6-10-69, Cl. 260-93.1
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Dalpiaz, Julius A., to Kluttz Machine & Foundry, Inc. Plated plastic dye tubes. 3,438,226, 4-15-69, Cl. 68-198.
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Daltry, John Harold, to English Electric Company, Limited, The. Dry cooling towers. 3,434,529, 3-25-69, Cl. 165-47.
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Daugherty, Phillip M.; Lovejoy, Charles K.; and Vaughan, Harry L., to Scripto, Inc. Method of producing a porous, substantially rigid rod type nib for writing instruments. 3,467,564, 9-16-69, Cl. 156-154.

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D'Aulerio, Herman, to United States of America, Navy. Aircraft arresting gear booster unit. 3,469,808, 9-30-69, Cl. 244-110.

Daum, Gerhard; Modic, Rudolf; and Richtzenhain, Hermann, to Dynamit Nobel Aktiengesellschaft. Production of 3,4,5,6-tetrahydropyridine derivatives containing γ-aminopropyl groups. 3,435,045, 3-25-69, Cl. 260-296.

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Daumiller, Guenther; Kastning, Ernst-Guenther; and Naarmann, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of unsaturated isobutylene graft copolymers. 3,476,831, 11-4-69, Cl. 260-879.

Daumiller, Guenther; and Lautenschlager, Walter, to Badische Anilin- & Soda- Fabrik Aktiengesellschaft. Shaped articles of polyamide having an antistatic finish. 3,428,710, 2-18-69, Cl. 260-857.
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Dauphinee, Thomas M., to Canadian Patents and Development Limited. Conductivity measuring apparatus with means for comparing sampled and reference voltages. 3,474,330, 10-21-69, Cl. 324-30.

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David, Charles W., to Data Products Corporation. Apparatus for honing magnetic discs. 3,486,274, 12-30-69, Cl. 51-132.

David, Charles W.; and Munson, Eugena A., to MRX Corporation. Apparatus for and method of finishing memory discs. 3,481,083, 12-2-69, Cl. 51-62.

David, Charles W.; and Munson, Eugene A., to Disc Pack Corporation, mesne. Apparatus for and method of cleaning memory discs. 3,479,222, 11-18-69, Cl. 134-33.

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Davidse, Pieter D.; and Maissel, Leon I., to International Business Machines Corporation. Low power density sputtering on semiconductors. 3,432,417, 3-11-69, Cl. 204-192.
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Davidson, Eugene M.; Gunter, Addison Y.; and Owen, Tom E., to Hudson Engineering Corporation. Manufacture of plate fin tube modules. 3,482,299, 12-9-69, Cl. 29-157.3
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Davidson, Ian A.; Hantusch, Gerald H.; and May, George A., to Northern Electric Company Limited. Method of making large scale integrated circuit. 3,423,822, 1-28-69, Cl. 29-574.
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Davidson, Robert R., to Lear Siegler, Inc. Gear pump seal. 3,473,476, 10-21-69, Cl. 103-126.
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Davies, Alwyn G., to M & T Chemicals, Inc. Unsymmetrical isocyanurate production. 3,450,701, 6-17-69, Cl. 260-248.
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Davies, Barrie Linton; and Selwood, Alan, to British Nylon Spinners Limited. Process for the production of a non-woven web of a continuous filament yarn. 3,423,266, 1-21-69, Cl. 156-167.
Davies, Barrie Linton; and Selwood, Alan, to British Nylon Spinners Limited. Process for making a bulky, multifilament, substantially twistless synthetic yarn and product thereof. 3,481,558, 12-2-69, Cl. 242-159.
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Davies, Ben; and Carini, George F., to Dresser Industries, Inc. Chemically bonded magnesite brick. 3,479,194, 11-18-69, Cl. 106-58.
Davies, Carl A., to Mobil Oil Corporation. Method and apparatus for plugging well pipe perforations. 3,437,147, 4-8-69, Cl. 166-42.
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Davies, Henry; Houlgate, Henry J.; Larkby, Geoffrey W. H.; and Peat, Derek, to British Broadcasting Corporation, The. Tape lacing mechanism. 3,458,156, 7-29-69, Cl. 242-55.13
Davies, James A.; and Sherman, Philip B., to Texaco Inc. Method of solvent recovery in refining hydrocarbon mixtures with N-methyl-2-pyrrolidone. 3,476,681, 11-4-69, Cl. 208-326.
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Davies, John Peter, to Scragg, Ernest, & Sons Limited. Packaging mechanisms for textile machines. 3,484,050, 12-16-69, Cl. 242-26.3
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Davies, Louis Walter, to Amalgamated Wireless (Australasia) Limited. Motion translator and self-synchronous system using same. 3,439,173, 4-15-69, Cl. 250-212.
Davies, Phineas, to Imperial Chemical Industries Limited. Steam reforming of hydrocarbons. 3,421,871, 1-14-69, Cl. 48-214.
Davies, Phineas; and Hughes, David Owen, to Imperial Chemical Industries Limited. Catalyst for steam reforming of hydrocarbons. 3,432,443, 3-11-69, Cl. 252-459.
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Davis, Bayard C. Apparatus and method for measuring temperature. 3,444,740, 5-20-69, Cl. 73-259.
Davis, Benjamin I.; and Klyce, Thomas A., to Ranger Tool Co., Inc. Apparatus for chilling sausage links. 3,482,417, 12-9-69, Cl. 62-375.
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Davis, Daniel H., Jr., to Burroughs Corporation. Record card handling and registering apparatus. 3,430,947, 3-4-69, Cl. 271-53.
Davis, Darwin Darrell, to Du Pont de Nemours, E. I., and Company. Electrolytic production of adiponitrile. 3,481,846, 12-2-69, Cl. 204-74.
Davis, David Maurice. Shell for cleaning a shotgun. 3,476,047, 11-4-69, Cl. 102-39.
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Davis, David W.: *See—*
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Davis, Dearl Keith; Hendrix, Warren P.; and Orr, Clyde, Jr. Particle classifier. 3,438,264, 4-15-69, Cl. 73-432.
Davis, Dhu Aine J., to Hermetic Coil Co., Inc. Assembly apparatus. 3,423,814, 1-28-69, Cl. 29-203.
Davis, Dhu Aine J. Missile launching toy. 3,430,620, 3-4-69, Cl. 124-27.
Davis, Dhu Aine J., to Hermetic Coil Co., Inc. Electrical coil. 3,453,575, 7-1-69, Cl. 336-192.
Davis, Dhu Aine J., to Hermetic Coil Co., Inc. Electrical coil. 3,457,534, 7-22-69, Cl. 336-192.
Davis, Dhu Aine J., to Hermetic Coil Co., Inc. Magnetic snap action electric switches. 3,458,841, 7-29-69, Cl. 335-207.
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Davis, Donovan C.: *See—*
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Davis, Dwane L.: *See—*
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Davis, Earl C. Trailer coupler. 3,433,503, 3-18-69, Cl. 280-512.
Davis, Earl K., to Westinghouse Electric Corporation. Capacitors employing lead silico-borate glass compositions. 3,469,161, 9-23-69, Cl. 317-258.
Davis, Edward A., to Goodrich, B. F., Company, The. Transfer molding method. 3,483,287, 12-9-69, Cl. 264-297.
Davis, Edward J.: *See—*
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Davis, Edward M., Jr.; McNutt, Robert D.; and Mones, Arthur H., to International Business Machines Corporation. Connections for microminiature functional components. 3,456,159, 7-15-69, Cl. 317-101.
Davis, Edward M., Jr.; and Mones, Arthur H., to International Business Machines Corporation. Functional components. 3,456,158, 7-15-69, Cl. 317-101.
Davis, Edwin S.: *See—*
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Davis Emergency Equipment Co., Inc.: *See—*
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Davis, Ephraim F. Automobile enclosure. 3,474,803, 10-28-69, Cl. 135-5.
Davis, Eugene L., Jr., to Du Pont de Nemours, E. I., and Company. Apparatus for interlacing multifilament yarn. 3,443,292, 5-13-69, Cl. 28-1.
Davis, Francis A., Jr., to Paramount Packaging Corporation. Thermoplastic bag manufacturing apparatus. 3,460,441, 8-12-69, Cl. 93-8.
Davis, Francis A., Jr., to Paramount Packaging Corporation. Method and apparatus for making plastic bags. 3,470,795, 10-7-69, Cl. 93-8.
Davis, Francis A., Jr.;, to Paramount Packaging Corporation. Heating apparauts. 3,481,051, 12-2-69, Cl. 34-162.

Davis, Francis E., Jr.: *See—*
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Davis, Frank C.; Luther, William B.; and Martinson, Donald L., to Shell Oil Company. Adhesive compositions comprising certain block copolymers and selected resins. 3,427,269, 2-11-69, Cl. 260-27.

Davis, Frank L. Cargo tiedown with lock for adjusted, web tensioned relation. 3,423,800, 1-28-69, Cl. 24-68.

Davis, Frank L. Cargo tiedown net combination of web adjusters, end connectors and reeving hardware. 3,478,394, 11-18-69, Cl. 24-75.

Davis, Frederick George; and Dean, Robert, to Fisons Fertilizers Limited. Sack filling. 3,468,349, 9-23-69, Cl. 141-75.

Davis, George D.: *See—*
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Davis, George H., to Houdaille Industries, Inc. Tool for assembling vane and abutment seals in rotary actuators and the like. 3,447,226, 6-3-69, Cl. 29-235.

Davis, George M.; and Lander, William M., to Index Packages, Inc. Inversion or tilt indicator. 3,467,053, 9-16-69, Cl. 116-114.

Davis, George T.: *See—*
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Davis, Glenn Gary; and Dahlin, Robert Walton, 50% to Lavine, Morris. Cigarette snuffer. 3,431,916, 3-11-69, Cl. 131-256.

Davis, Harold B.: *See—*
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Davis, Harold G.; and Brunson, Thayer R., to Rocky Mountain Dental Products Co. Welding device. 3,452,177, 6-24-69, Cl. 219-78.

Davis, Harry E. Method and apparatus for making stirrers. 3,441,637, 4-29-69, Cl. 264-95.

Davis, Harry E.; and Pfeiffer, Fred B. Method and apparatus for packaging drinking straws. 3,477,191, 11-11-69, Cl. 53-14.

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Davis, Harry S. Sequential distributing valve. 3,472,265, 10-14-69, Cl. 137-119.

Davis, Herman E.; and Ownby, James C., to Eastman Kodak Company. Sludging inhibited hydrocarbon fuel. 3,447,917, 6-3-69, Cl. 44-66.

Davis, Horace R.; and Taylor, Charles W., to Minnesota Mining and Manufacturing Company. Cured polyarylene oxides and process therefor. 3,455,736, 7-15-69, Cl. 117-218.

Davis, Howard Arthur; and Karickhoff, Michael, to Du Pont de Nemours, E. I., and Company. Post-formable film. 3,455,720, 7-15-69, Cl. 117-7.

Davis, Howard C.; and Trumbull, Harold E., to Xerox Corporation, mesne. Pressure producing means for reproduction machine. 3,433,154, 3-18-69, Cl. 101-132.

Davis, Howard F., Jr., to Carborundum Company, The. Barrel finishing media. 3,428,443, 2-18-69, Cl. 51-309.

Davis, Hugh J.; and Jones, Edmund A., said Davis assor. to Johns Hopkins University, The, and said Jones assor to Ortho Pharmaceutical Corporation. Intrauterine contraceptive device. 3,431,905, 3-11-69, Cl. 128-130.

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Davis, Jack W., to United Aircraft Corporation. Contoured glow discharge cathode producing focused electron beams. 3,430,091, 2-25-69, Cl. 313-210.

Davis, Jack W.; and Ferreira, Fernand J., to United Aircraft Corporation. Device for moving a beam of charged particles. 3,466,487, 9-9-69, Cl. 313-146.

Davis, James B., to Monsanto Company. Imines containing a polyalkenylsuccinic anhydride substituent. 3,455,831, 7-15-69, Cl. 252-51.5

Davis, James B., to Monsanto Company. Schiff bases. 3,455,832, 7-15-69, Cl. 252-51.5

Davis, James B. Fixed dorsal electrode system for electrocardiography. 3,476,104, 11-4-69, Cl. 128-2.06

Davis, James H.; Dobie, John D.; and Flockhart, Maxwell G., to Graig & Seeley, Limited. Radiant gas burner. 3,437,415, 4-8-69, Cl. 431-328.

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Davis, John A., Jr., to Marathon Oil Company. Method of designing a soluble oil slug for an oil recovery process. 3,476,184, 11-4-69, Cl. 166-273.

Davis, John B.; and Yarbrough, Henry F., to Mobil Oil Corporation. Geochemical exploration. 3,457,044, 7-22-69, Cl. 23-230.

Davis, John H., to Bell Telephone Laboratories, Incorporated. Digital clamping of pulse code modulated television signals. 3,476,875, 11-4-69, Cl. 178-7.1

Davis, John H., to Esso Research and Engineering Company. Purification of aromatic hydrocarbons. 3,485,884, 12-23-69, Cl. 260-674.

Davis, John H.; and Coney, Charles H., to Eastman Kodak Company. Solvent resistant cross-linked polymers derived from cellulose esters. 3,475,356, 10-28-69, Cl. 260-13.

Davis, John K.; Fernald, Henry G.; and Rayner, Arline W., to American Optical Company. Ophthalmic lens series. 3,434,781, 3-25-69, Cl. 351-159.

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Davis, John Walter, to Dunlop Company Limited, The. Rotary inertia vehicle anti-skid braking systems. 3,470,746, 10-7-69, Cl. 73-514.

Davis, John W.; and Hill, Olen E., to United States of America, National Aeronautics and Space Administration. Burst diaphragm flow initiator. 3,469,734, 9-30-69, Cl. 220-89.

Davis, Joseph R., Jr.; and Tice, John D., to Sun Oil Company. CS_2 Sulfiding of catalysts. 3,481,862, 12-2-69, Cl. 208-143.

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Davis, Kenneth G., to Mobil Oil Corporation. Coating compositions comprising dispersion grade vinyl resin, carboxyl containing acrylic resin and epoxidized novolac resin for adherently coating metal. 3,466,347, 9-9-69, Cl. 260-837.

Davis, Kenneth J., to National Broach & Machine Company. Gear grinding machine. 3,440,769, 4-29-69, Cl. 51-95.

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Davis, Lewis K.; and Obadal, Richard D., to Deere & Company. Vehicle accessory box and detachable cover plate. 3,464,717, 9-2-69, Cl. 280-164.

Davis, Lincoln K., to Foxboro Company, The. Box pen inking system. 3,438,058, 4-8-69, Cl. 346-140.

Davis, Lionel A. Telephone handset support. 3,466,406, 9-9-69, Cl. 179-157.

Davis, Louis K., to General Electric Company. Angular stabilization device. 3,423,613, 1-21-69, Cl. 310-93.

Davis, Luther, Jr., to Raytheon Company. Ultrasonic optical modulator for time compression of chirp signals. 3,483,387, 12-9-69, Cl. 250-216.

Davis, Mack C. Combined floor wiper and scourer apparatus. 3,484,888, 12-23-69, Cl. 15-118.

Davis, Marion H., to V-Plex Clutch Corporation. Vehicle control apparatus. 3,448,818, 6-10-69, Cl. 180-6.66

Davis, Martin A., to American Home Products Corporation. Dibenzocycloheptene-5-hydroxamic acid and ether and carbonyl derivatives thereof. 3,475,485, 10-28-69, Cl. 260-500.5

Davis, Martin A.; and Campbell, David J., to American Home Products Corporation. Dibenzocyclohepten-5-ylidene thiazolidinones. 3,436,397, 4-1-69, Cl. 260-306.7

Davis, Martin A.; and Campbell, David J., to American Home Products Corporation. Benzhydrylidene thiazolidinones. 3,436,398, 4-1-69, Cl. 260-306.7

Davis, Martin A.; and Dobson, Thomas A., to American Home Products Corporation. Carbamates and carvanilates of 11-hydroxy-10,5(epoxymethano)dibenzocyclohepten-13-one. 3,462,457, 8-19-69, Cl. 260-343.2

Davis, Martin A.; and Dobson, Thomas A., to American Home Products Corporation. 10-Hydroxy-10,5-(iminomethano)-5H-dibenzo[a,d] cyclopheptene-11,13(10-H)diones and intermediates thereto. 3,487,075, 12-30-69, Cl. 260-239.3

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Davis, Maurice C.; and Wood, Palmer R., to Garrett Corporation, The. Centrifugal type speed governor with electromagnetic set point adjustment. 3,439,694, 4-22-69, Cl. 137-53.
Davis, Maurice, to Davis Industrial Equipment Company Limited. Non-planar filter and supporting means. 3,458,978, 8-5-69, Cl. 55-499.
Davis, Maurice, to Davis Industrial Equipment Company Limited. Filters. 3,458,979, 8-5-69, Cl. 55-499.
Davis, Michael; Parnell, Edgar William; and Sharp, Brian William, to May & Baker Limited. Methyl and ethyl 6-and 7-substituted 4-hydroxy- quinoline-3-carboxylates useful as coccidiostats. 3,485,845, 12-23-69, Cl. 260-287.
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Davis, Noah S., to North American Rockwell Corporation. Method of making fiber-reinforced structures. 3,454,691, 7-8-69, Cl. 264-108.
Davis, Noah S.; and Foust, Oren J., to North American Rockwell Corporation. Flocculation of suspensions. 3,431,200, 3-4-69, Cl. 210-10.
Davis, Noah S.; and Foust, Oren J., to North American Rockwell Corporation. Waste treatment process with recycling flocculating agents. 3,440,166, 4-22-69, Cl. 210-8.
Davis, Noah S.; Foust, Oren J.; and Withers, Thomas W., to North American Rockwell Corporation. Waste treatment process with recycling of lime. 3,440,165, 4-22-69, Cl. 210-4.
Davis, Noel, to Integrated Development and Manufacturing Co. Environmental growth chamber construction. 3,434,530, 3-25-69, Cl. 165-60.
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Davis, Norman E., to Mitchell, John E., Company. Vacuum cleaning system. 3,425,192, 2-4-69, Cl. 55-345.
Davis, Paul K., to First Western Bank and Trust Company, mesne. Strip joining apparatus and method. 3,458,103, 7-29-69, Cl. 228-5.
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Davis, Pauls; and Vogt, Herwart C., to Wyandotte Chemicals Corporation. Homopolymerization of poly-halogenous alkylene oxides. 3,478,110, 11-11-69, Cl. 260-615.
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Davis, Philip E., Jr. Packer tool setting and hold-down arrangement. 3,428,123, 2-18-69, Cl. 166-120.
Davis, Ralph A., to Dow Chemical Company, The. Fire-retardancy of lignocellulosic materials by phosphorylating chlorinated or brominated lignocellulosics. 3,459,588, 8-5-69, Cl. 117-118.
Davis, Ralph A.; and Larsen, Eric R., to Dow Chemical Company, The. Michaelis-arbuzov reaction. 3,483,279, 12-9-69, Cl. 260-969.
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Davis, Robert H. Power-driven crimping tool. 3,469,434, 9-30-69, Cl. 72-452.
Davis, Robert J. Removable liner for purses or the like. 3,451,454, 6-24-69, Cl. 150-29.
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Davis, Ronald C. Flight recorder calibrator. 3,459,031, 8-5-69, Cl. 73-1.
Davis, Ronald N., to Columbia Broadcasting System, Inc. Apparatus for duplicating reelable film. 3,479,120, 11-18-69, Cl. 355-85.
Davis, Rooney W., to ACF Industries, Incorporated. Method of and lever pin assembly in pump. 3,483,826, 12-16-69, Cl. 103-150.
Davis, Roy Forrest, Jr. Check valve. 3,444,887, 5-20-69, Cl. 137-541.
Davis, Roy Forrest, Jr., to Western Irrigation Valve Corporation. High pressure relief valve. 3,447,565, 6-3-69, Cl. 137-541.
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Davis, Stanley M., to American Cyanamid Company. Battery cell depolarizers. 3,438,813, 4-15-69, Cl. 136-83.
Davis, Stanley M.; Voorhies, John D.; and Schurdak, Edward J., to American Cyanamid Company. Rechargeable dry cells and method of using same. 3,468,708, 9-23-69, Cl. 136-6.
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Davis, Steven S. Aligning means for endless web filter. 3,429,447, 2-25-69, Cl. 210-401.
Davis, Steven S.; Davis, Kent L.; and Brozovich, John C., to Envirotech Corporation. Disc sector for rotary disc filter. 3,473,669, 10-21-69, Cl. 210-486.
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Davis, Vincent C., to Chevron Research Company. Automatic freezing point indicator and method. 3,457,771, 7-29-69, Cl. 73-17.
Davis, Vincent C., to Chevron Research Company. Automatic freezing point indicator. 3,486,363, 12-30-69, Cl. 73-17.
Davis, Walter M., to Monsanto Company. Process for continuous liquid-solid contacting. 3,450,526, 6-17-69, Cl. 75-103.
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Davis, William J., to Polymer Corporation, The. Method of making pressure-sensitive liquid- dispensing device from polyamides and article therefrom. 3,427,277, 2-11-69, Cl. 260-33.4
Davis, William J., to Radio Corporation of America. Vector display system. 3,430,207, 2-25-69, Cl. 340-172.5
Davis, William J.; and Church, Richard O., to Little, Arthur D., Inc. Capillary devices. 3,474,703, 10-28-69, Cl. 87-1.
Davis, William John Nankivell, to Zinc Corporation Limited, The. Method and apparatus for froth flotation. 3,446,353, 5-27-69, Cl. 209-164.

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Davison, Richard R.; and Hood, Donald W., to United States of America, Interior. Vapor compression solvent extractor desalination. 3,424,675, 1-28-69, Cl. 210-22.
Davison, Thomas M., to Dresser Systems, Inc. Master automatic gain control of seismic amplifiers. 3,441,867, 4-29-69, Cl. 330-52.
Davison, Verle L.; Pryde, Everett H.; and Moore, Danny J., to United States of America, Agriculture. Thermally stable stationary phases for temperature programmed gas chromatography. 3,485,028, 12-23-69, Cl. 55-386.
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Dejo, Inc.: *See—*
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de Jonckheere, Jacob A.; and de Jonckheere, Ruth A. Camper truck mounted awning. 3,426,775, 2-11-69, Cl. 135-5.

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De Jong, Martijn H.: *See—*
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De Jong, Willem P.: *See—*
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de Jongh, Wilhelmus Kare, to North American Philips Company, Inc. X-ray crystal monochromator with a reflecting surface that conforms to part of a logarithmic spiral. 3,439,163, 4-15-69, Cl. 250-51.5

Dejoux, Jean Veran, to Reisini, Nicolas. Viewer for animated strips. 3,476,470, 11-4-69, Cl. 352-68.

Dejoux, Jean Veran, to Reisini, Nicolas. Optical printer. 3,480,362, 11-25-69, Cl. 355-40.

de Julian, Pablo Martin. Power transmission mechanism. 3,435,707, 4-1-69, Cl. 74-677.

DeJur-Amsco Corporation: *See—*
Lessler, Lew W., 3,450,471.

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De Kalb Industries, Inc.: *See—*
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Dekan, Howard L., to Marvin Glass & Associates. Splashing doll. 3,436,859, 4-8-69, Cl. 46-247.

Dekan, Vincent A.; and Silks, Walter, to Westinghouse Air Brake Company. Corner sprocket retainer and release. 3,424,500, 1-28-69, Cl. 299-59.

De Keyser, Lodewijk Felix; Conix, Andre Jan; and Van Dessel, Lodewijk August, to Gevaert Photo-Producten N.V. Photographic element comprising subbed polyester film support. 3,434,840, 3-25-69, Cl. 96-87.

Dekker, Jan, to Shell Oil Company. Production of plastic foam sheet. 3,422,172, 1-14-69, Cl. 264-51.

Dekking, Henri G. G., to Union Oil Company of California. Method of preparing polypeptide graft copolymers. 3,442,826, 5-6-69, Cl. 260-8.

Dekking, Henri G. G., to Union Oil Company of California. Method for preparing polysaccharide graft copolymers. 3,455,853, 7-15-69, Cl. 260-17.4

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De Klotz, Ralph E., to Avco Corporation. Adjustable variable thrust propulsion device. 3,442,083, 5-6-69, Cl. 60-229.

de Koning, Arie Adrianus; and de Koning, Kornelis Korstiaan Karel. Collapsible dome. 3,470,659, 10-7-69, Cl. 52-63.

De Koning, Cornelis, to North American Philips Company, Inc. Device for simultaneously recording and/or reproducing different signals. 3,422,367, 1-14-69, Cl. 330-59.

de Koning, Kornelis Korstiaan Karel: *See—*
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de Koster, Heinz A.; and Ingenito, Michael J., to General Time Corporation. Timekeeping system utilizing glow discharge tube. 3,466,498, 9-9-69, Cl. 315-84.6

De Krauze, Richard Gregory. Kitchen sink plug. 3,449,775, 6-17-69, Cl. 4-287.

de Kroes, Jan Louis; and van Eijk, Willem, to U.S. Philips Corporation, mesne. Push-button signalling members. 3,483,332, 12-9-69, Cl. 179-90.

de Kyvon, Robert Lestrade Carluer, to Expandet S.A. Screw or lag bolt of the wood-screw type. 3,461,770, 8-19-69, Cl. 85-46.

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de la Breteque, Pierre, to Swiss Aluminium Ltd. Process for purifying solution containing aluminates. 3,457,032, 7-22-69, Cl. 23-52.

de la Bretoniere, Andre Benoit, to American Enka Corporation. Method and apparatus for heating thread-like products. 3,441,702, 4-29-69, Cl. 219-10.61

De La Cierva, Juan; Perlmutter, Adolf A.; and Fraser, David B., to Dynasciences Corporation. Aircraft electrostatic discharging system. 3,427,504, 2-11-69, Cl. 317-2.

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Delaby, Pierre-Andre Raymond, to Les Laboratoires Dausse. Tetracycline salts of 4-methyl-aesculetin- monoethanoic acid. 3,465,005, 9-2-69, Cl. 260-343.2

Delacour, Jacques; and Casteran, Jean, to Institut Francais du Petrole, des Carburats et Lubrifiants. Apparatus for the handling and assembling of tubular rigid elements on a floating installation. 3,420,318, 1-7-69, Cl. 175-5.

Delafrange, Kenneth M.; and Rappaport, Max, said Rappaport assor. to said Delafrange. Receptacle overload switch. 3,441,799, 4-29-69, Cl. 317-9.

Delagrange, Arthur D., to United States of America, Navy. High input impedance amplifier circuit. 3,436,672, 4-1-69, Cl. 330-38.

Delagrange, Arthur D., to United States of America, Navy. Linear interpolator circuit. 3,484,777, 12-16-69, Cl. 340-347.

Delahunt, John F.; and Haisch, Richard A., to Esso Research and Engineering Company. Control system and method for anodic protection. 3,483,101, 12-9-69, Cl. 204-147.

De Lain, Robert L. Chalk marking device. 3,475,822, 11-4-69, Cl. 33-87.

Delaire, Gerard V.; and Peace, Robert G., to Eastman Kodak Company. Method of forming plastic book backs. 3,454,694, 7-8-69, Cl. 264-151.

deLajarte, Stephane Dufaure, to Compagnie de Saint-Gobain. Manufacture of flat glass on a molten metal bath. 3,427,142, 2-11-69, Cl. 65-65.

DeLajarte, Stephane Dufaure; and Bourgeaux, Maurice, to Compagnie de Saint-Gobain. Method and apparatus for producing flat glass. 3,468,649, 9-23-69, Cl. 65-91.

De Lamater, Paul F., to Reliance Electric and Engineering Company, The, mesne. Elevator control having automatic reset of car travel. 3,429,404, 2-25-69, Cl. 187-29.

Delamater, William B. Shower head. 3,432,105, 3-11-69, Cl. 239-455.

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de Lamballerie, Guy Nicolas, to Entreprise de Recherches et d' Activites Petrolieres (E.R.A.P.). Dynamic filter press. 3,435,663, 4-1-69, Cl. 73-38.

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De Lancey, Warren H.; Hays, Herbert G.; and Hartzell, Donald W., to American Standard Inc. Gas burner. 3,469,791, 9-30-69, Cl. 239-419.5

Delaney, Charles E., to Overhead Door Corporation. Safety switch cutoff control. 3,474,317, 10-21-69, Cl. 318-266.

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Delaney, John J., to Medico Industries Inc. Indexing mechanism for rotary table. 3,421,391, 1-14-69, Cl. 74-822.
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Delaney, Ronald A.; and Williams, Jesse J., Jr., to International Business Machines Corporation. Thermistor and method of fabrication. 3,444,501, 5-13-69, Cl. 338-22.
Delaney, Vincent N., to Torrington Manufacturing Company, The. Apparatus for stacking palletized groups of articles in a container. 3,434,264, 3-25-69, Cl. 53-59.
De Lange, Herman Kasper Adriaan; and Pollaschek, Viktor, to North American Philips Company, Inc. Device for switching the movements of a tape- shaped record carrier in recording and/or play- back apparatus. 3,424,965, 1-28-69, Cl. 318-284.
De Lange, Owen E., to Bell Telephone Laboratories, Incorporated. Optical pulse multiplier. 3,447,856, 6-3-69, Cl. 350-150.
de Lange, Robert Gerardus; Verbraak, Cornelis Antonius; and Zijderveld, Jacobus Antonius, to Nederlandse Centrale Organisatie voor Toegepast- Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid. Self-projectable element for a space vehicle. 3,450,372, 6-17-69, Cl. 244-1.
De Langis, Philip A., to Physio-Control Corporation. Ground absence detector and protective device. 3,426,342, 2-4-69, Cl. 340-255.
De Lano, Artus D. Surgical splint. 3,446,206, 5-27-69, Cl. 128-79.
Delany, James F.; and Walter, Gerard O., to RCA Corporation. Photocomposing apparatus support structure. 3,479,934, 11-25-69, Cl. 95-4.5
Delapalme, Bernard M. Radio direction-finding receiver for the detection of radar apparatus. 3,465,342, 9-2-69, Cl. 343-113.
DeLapp, Darwin Fiske; and Deichert, William George, to American Cyanamid Company. Weather-resistant unsaturated polyester resin composition. 3,431,321, 3-4-69, Cl. 260-872.
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De Lara, Juan Francisco. Cracklings and process for their manufacture. 3,428,462, 2-18-69, Cl. 99-107.
De Larm, Gerald L. Farm implement lift assembly and drawbar combination. 3,465,832, 9-9-69, Cl. 172-491.
Delarue, Jean-Louis Auguste; and Fallard, Rene Louis, to Laboratoires Toraude. Lipotropic compositions and their administration. 3,461,211, 8-12-69, Cl. 424-316.
Delarue, Lucien; and Doucas, Pierre, to Regie Nationale des Usines Renault. Feed control devices for carburetor engines. 3,482,557, 12-9-69, Cl. 123-136.
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Delatorre, Leroy Christopher, to Camco, Incorporated. Battery low voltage cutoff and regulator. 3,445,746, 5-20-69, Cl. 320-40.
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Delaval, Jean Claude; Guinet, Paul Alfred Eugene; and Morel, Jean, to Rhone-Poulenc S.A. Process for the preparation of linear organopolysiloxanes. 3,439,013, 4-15-69, Cl. 260-448.2
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Delavarenne, Serge Y.; and Viehe, Heinz G., to Union Carbide Corporation. Process for the preparation of di(N,N-dihydrocarbylamino) acetylenes. 3,483,256, 12-9-69, Cl. 260-583.
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Delbar Products, Incorporated: *See—*
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Delbouille, Andre; and Speltinckx, Rene, to Solvay & Cie. Process for the preparation of polymerization catalysts. 3,454,547, 7-8-69, Cl. 260-94.9
Delbouille, Andre; and Toussaint, Henri, to Solvay & Cie. Process and catalysts for polymerization and copolymerization of olefins and the resultant polymers and copolymers. 3,479,326, 11-18-69, Cl. 260-80.78
Delbouille, Andre; and Toussaint, Henry, to Solvay & Cie. Process for the polymerization of olefins. 3,424,737, 1-28-69, Cl. 260-94.9
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De Leon, Vernon C. Spill proof drinking cup. 3,428,214, 2-18-69, Cl. 220-90.4
De Leonardis, Alfonso J., to United States of America, Army. Rotor fuze. 3,483,822, 12-16-69, Cl. 102-79.
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Del Gaudio, Italo, to Texas Instruments, Incorporated. Safety interlock for appliances. 3,458,675, 7-29-69, Cl. 200-61.64
Del Giudice, Frank J., to Hardman Aerospace, mesne. Aircraft seat assembly with lateral positioning facility. 3,480,240, 11-25-69, Cl. 244-118.
Del Giudice, Frank P., to Metal Hydrides Incorporated. Method for removing solvents from metal hydride solvates. 3,453,089, 7-1-69, Cl. 23-305.
Deli, Jack M., to International Harvester Company. Track joint having floating seal. 3,437,385, 4-8-69, Cl. 305-11.
Deli, Jack M., to International Harvester Company. Bulldozer tiltable blade mounting. 3,452,828, 7-1-69, Cl. 172-803.
Deli, Jack M., to International Harvester Company. Track joint having floating seal. 3,469,891, 9-30-69, Cl. 305-11.
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Deli, Jack M.; Jacobsen, Walter C.; Fanslow, Ronald J.; and Mosquera, Hugo O., to International Harvester Company. Vehicle instrument console having pivoting guard cover. 3,452,835, 7-1-69, Cl. 180-90.
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D'Elia, Anthony N.; and Stolarz, Edward M. Chance game device having an indicia bearing base indexed by rotatable members having indicators thereon. 3,458,200, 7-29-69, Cl. 273-138.
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D'Elia, Anthony N.; and Stolarz, Edward M. Temperature control means for electrically heated hair curler. 3,486,000, 12-23-69, Cl. 219-222.

D'Elia, Anthony N.; and Stolarz, Edward M. Electric hair curlers. 3,487,197, 12-30-69, Cl. 219-222.
D'Elia, Anthony N.; and Stolarz, Edward M., to Presto Lock Co., Inc. Handle assembly for luggage or the like. 3,430,742, 3-4-69, Cl. 190-58.
De Ligt, John, to West Virginia Pulp and Paper Company. Method and apparatus for covering rolls. 3,449,811, 6-17-69, Cl. 29-148.4
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Delker, Thomas C., to Bendix Corporation, The. Coupler. 3,434,372, 3-25-69, Cl. 74-579.
Dell'Eugenio, Beniamino, to Montecatini Edison S.p.A. System for the transfer of analogue data. 3,426,333, 2-4-69, Cl. 340-173.
Dell, Harry John; Folkenroth, Earl Earnest; and Garver, William Joseph, to AMP Incorporated. Strain relief. 3,424,416, 1-28-69, Cl. 248-56.
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Della Torre, Edward. Human voice recognition device. 3,456,080, 7-15-69, Cl. 179-1.
Della Torre, Giancarlo, to Singer Company, The. Compensating loop taker mechanisms. 3,479,978, 11-25-69, Cl. 112-159.
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Delledonne, Gaudenzio. Device for pneumatically controlling the closing of a motor-vehicle, tram carriage window and the like. 3,435,559, 4-1-69, Cl. 49-280.
Deller, Konrad, to ALWEG Gesellschaft mit beschrankter Haftung. Monorail truck. 3,439,629, 4-22-69, Cl. 105-133.
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Delmonte, John; and Meadows, Paul L., to Furane Plastics Incorporated. Process of casting a polyurethne to form a flexible mold. 3,428,725, 2-18-69, Cl. 264-226.
Delmonte, Julian, to Whittaker Corporation, mesne. Differential pressure transducer. 3,427,884, 2-18-69, Cl. 73-398.
del Moral, Martin Duarte. Appliance for drying moist articles. 3,479,749, 11-25-69, Cl. 34-103.
Delmore, Paul J., to Eastman Kodak Company. Conductive magnetic tape support. 3,440,091, 4-22-69, Cl. 117-216.
De Loach, Bernard C., Jr., to Bell Telephone Laboratories, Incorporated. Tunable crystal diodes. 3,448,415, 6-3-69, Cl. 333-98.
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De Lorean, John Z., to General Motors Corporation. Internal combustion engine. 3,422,806, 1-21-69, Cl. 123-195.
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DelPesco, Andrew. Flexible shackle lock. 3,435,642, 4-1-69, Cl. 70-49.
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Dodson, James L. Method of making a relative permeability survey using a floating plugging material. 3,463,230, 8-26-69, Cl. 166-254.
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Dollison, William W., to Otis Engineering Corporation. Pressure control device. 3,481,362, 12-2-69, Cl. 137-460.
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Dolman, Austin, to Hill & Dolman (Engineers) Limited. Bag forming methods and apparatus. 3,481,102, 12-2-69, Cl. 53-29.
Dolman, Henry J., to Brecknell, Dolman, and Rogers Limited. Apparatus for extracting and feeding coins stored in a bulk supply. 3,463,171, 8-26-69, Cl. 133-1.
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Wuhrer, Josef; and Wiensz, Klaus, 3,441,636.
Dolomite Franchi S.p.A.: *See*—
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Dolphin, Thomas J., to Westinghouse Electric Corporation. Tension control system for a reel drive. 3,448,357, 6-3-69, Cl. 318-6.
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Smith, Kenneth L., 3,464,735.
Dolter, Paul A., to Dole Valve Company, The. Anti-knock flow valve. 3,476,146, 11-4-69, Cl. 137-599.
Dolveck, Gilbert, to Boxal Beaurepaire S.A. Process for reducing the end of a tubular metallic body and device for carrying out this process. 3,430,594, 3-4-69, Cl. 113-1.
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Doman, Robert C.: *See*—
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Domas, Lawrence. Sorbent material and filter aid compositions and the process for the preparation thereof. 3,470,104, 9-30-69, Cl. 252-188.
Domashovetz, Volodymyr, to Remco Industries, Inc. Toys controlled by sound of a pre-determined frequency. 3,444,646, 5-20-69, Cl. 46-244.
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Domba, Elemer, to Nalco Chemical Company. Novel compositions and their use in preventing and inhibiting foam. 3,422,027, 1-14-69, Cl. 252-321.
Dombacher, Wolf, to North American Philips Company, Inc. Constant-voltage supply for electronic equipment in battery-operated recording or playback apparatus. 3,424,871, 1-28-69, Cl. 179-100.2
Dombeck, Thomas W. Information storage apparatus. 3,445,715, 5-20-69, Cl. 315-18.
Dombro, Robert A., to Universal Oil Products Company. Preparation of ketones. 3,426,066, 2-4-69, Cl. 260-540.
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Dombro, Robert A., to Universal Oil Products Company. Conversion of disulfides to alcohols. 3,459,813, 8-5-69, Cl. 260-632.
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Dombro, Robert A.: *See*—
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Dombrowski, Theodor; and Kunze, Bernhard, to Wilhelm Hegenscheidt Kommanditgesellschaft. Surface smoothing arrangement. 3,448,504, 6-10-69, Cl. 29-90.
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Domen, Sylvester G., Sr. Apparatus for making standardized tape specimens. 3,436,963, 4-8-69, Cl. 73-150.
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Domenico, Robert J.; and Lloyd, Robert H. F., to International Business Machines Corporation. Thin film decoupling capacitor incorporated in an integrated circuit chip, and process for making same. 3,460,010, 8-5-69, Cl. 317-235.
Domenico, Salvatore. Bowling glove. 3,421,160, 1-14-69, Cl. 2-159.
Domenico, Samuel N., to Pan American Petroleum Corporation. Apparatus for automatically following a line on a chart. 3,427,457, 2-11-69, Cl. 250-202.
Domeny, Steven, to Crane Packing Company. Positive feed device for tape dispenser. 3,470,781, 10-7-69, Cl. 83-436.
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Domin, Robert A., to Youngwood Electronic Metals, Inc. Method of forming presoldering components and composite presoldering components made thereby. 3,454,374, 7-8-69, Cl. 29-183.5
Domine, Daniel; and Quobex, Jean, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Process for the preparation of synthetic faujasite. 3,481,699, 12-2-69, Cl. 23-112.
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Prechter, Karl E., 3,435,584.
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Dommann, Gunther; and Holken, Norbert, to Gewerkschaft Eisenhutte Westfalia. Multi-sectional roof cap for mine roof supporting prop means. 3,455,113, 7-15-69, Cl. 61-45.
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Don, Jules M., to Stanley Works, The. Level vial holder and method of making same. 3,442,024, 5-6-69, Cl. 33-211.
Donadieu, Lucien J., to Compagnie Generale d'Electricite. Superconductive quadripole with magnetic focusing. 3,431,523, 3-4-69, Cl. 335-210.
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Donahue, Gary M., to Reynolds Metals Company. Carrier for bottle-like containers, method of making such carrier, and blanks for making same. 3,442,421, 5-6-69, Cl. 220-114.
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Donald, Philip J.; and Chambers, Robert W., to United States of America, Navy, mesne. Optical correlator for determining the longitudinal displacement of similar information on two tracks. 3,453,439, 7-1-69, Cl. 250-220.
Donald, Raymond G., to Mallory, P. R., & Co., Inc. High-current integrated-circuit power transistor. 3,465,214, 9-2-69, Cl. 317-235.
Donald, William A. Method and apparatus for reducing sonic waves and aerodynamic drag. 3,446,464, 5-27-69, Cl. 244-130.
Donaldson, Chase. Reinforced plastic strapping laminate. 3,475,264, 10-28-69, Cl. 161-143.
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Donaldson, Darrell J.; Guice, Wilma A.; Drake, George L., Jr.; and Reeves, Wilson A., to United States of America, Agriculture. Process for imparting rot-resistance to an organic textile material and the resulting material. 3,420,700, 1-7-69, Cl. 117-138.5
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Donaldson, Earl J., to United States of America, Navy. Two-degree gyro for a television camera. 3,474,986, 10-28-69, Cl. 244-3.1
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Donaruma, Lorraine Guy, to Research Corporation. Herbicidal tropolone esters. 3,472,893, 10-14-69, Cl. 260-471.
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Donatelli, Leonardo: *See—*
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Donato, Luigi; Gennaro, Gianni; and Giordani, Roberto, to European Atomic Energy Community (Euratom). Radio diagnostic scanner with separately moving scintillato—detectors. 3,428,805, 2-18-69, Cl. 250-71.5
Donche, Alain; and Thibault, Claude, to Societe Nationale des Petroles d'Aquitaine. Process for the preparation of iminodithiolanes. 3,442,907, 5-6-69, Cl. 260-327.
Donche, Alain; and Thibault, Claude, to Societe Nationale des Petroles d'Aquitaine. Process for the preparation of iminothiazolidines. 3,485,849, 12-23-69, Cl. 260-306.7
Dondzila, Frank A.; Restivo, Albert R.; and Yale, Harry L., to Squibb, E. R., & Sons, Inc. Synthesis of 2-substituted phenothiazines. 3,426,020, 2-4-69, Cl. 260-243.
Donelan, James Arthur; and Williams, Michael, to General Electric Company Limited, The. Method of making superconductive cables. 3,453,725, 7-8-69, Cl. 29-599.
Donelson, Harlan J., Jr. Variable speed material spreader. 3,429,419, 2-25-69, Cl. 198-128.
Donelson, Harlan J., Jr., to Remington Arms Company, Inc. Material spreader. 3,485,536, 12-23-69, Cl. 302-60.
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Donges, Ernst; Kohlhaas, Rudolf; Hloch, Albert; and Medic, Nikolaj, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for obtaining fluorine compounds from digestion solutions of crude phosphates with nitric acid or hydrochloric acid. 3,420,622, 1-7-69, Cl. 23-88.
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Doniger, Jerry; Schoenblum,Ervin; and Feintuch, Martin W., to Bendix Corporation, The. Automatic control system for landing an aircraft. 3,447,765, 6-3-69, Cl. 244-77.
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Donkers, Jacobus M., to Verschure & Co's Scheepswerf en Machinefabriek N.V. Method and apparatus for establishing a fixed support of a buoyant body in rough water. 3,429,127, 2-25-69, Cl. 61-46.5
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Donnelly, Charles A., Jr.; Gaffron, Bernard W.; and Stoll, Marvin A., to Minnesota Mining and Manufacturing Company. Portable light box and heat developing unit. 3,467,470, 9-16-69, Cl. 355-115.
Donnelly, Daniel J., to United States of America, Army. Weapon. 3,459,098, 8-5-69, Cl. 89-1.
Donnelly, James M., to Automatic Electric Laboratories, Inc. Memory plane for solenoid array memories. 3,466,622, 9-9-69, Cl. 340-174.
Donnelly, John F.; Larsen, Michael J.; and Webber, William O., to Esso Research and Engineering Company, mesne. Process control system for making butyl rubber. 3,427,138, 2-11-69, Cl. 23-260.
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Donovan, David A., to RCA Corporation. Automobile control manipulating apparatus. 3,465,577, 9-9-69, Cl. 73-116.
Donovan, Donald W., to Monsanto Company. Tray structure. 3,420,431, 1-7-69, Cl. 229-2.5
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Donovan, Donald W., to Monsanto Company. Sealed container. 3,452,921, 7-1-69, Cl. 229-45.
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Dooley, James L.; and Gudmundsen, Austin, to McCulloch Corporation. Oil impregnating method and apparatus for chain. 3,463,267, 8-26-69, Cl. 184-1.
Dooley, John W., to Hewlett-Packard Company. Thermal conductivity detector. 3,474,660, 10-28-69, Cl. 73-27.
Dooley, Kerry A.; Rockhill, William E.; Swope, David L.; Thomas, Earl F.; and van Fossen, Ralph H., Jr., to Duncan Electric Company, Inc. Lightning arrester with the frustoconical surface of the parallel electrodes being exposed toward each other at the narrow end of a diverging spark slot. 3,467,877, 9-16-69, Cl. 313-325.
Dooley Lovelace Charles. Level determining device and apparatus. 3,443,319, 5-13-69, Cl. 33-209.
Dooley, Peter C., Jr., to Carborundum Company, The. Grinding machine. 3,451,385, 6-24-69, Cl. 125-11.
Dooley, Peter C., Jr., to Carborundum Company, The. Pressure applying apparatus. 3,458,960, 8-5-69, Cl. 51-215.
Dooley, William P., to Sun Oil Company. Hot melt adhesive containing a high melting polyhydroxy compound. 3,474,055, 10-21-69, Cl. 260-17.4
Doolin, Thomas J. Method and apparatus for backfilling and underpinning an underground coal or ore mine. 3,440,824, 4-29-69, Cl. 61-35.
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Doolittle, Charles, to Westinghouse Air Brake Company. Needle valve device for adjusting cushioning in power cylinders and method of installing. 3,443,579, 5-13-69, Cl. 137-315.
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Downey, David F.; Le Baigue, Jacques L.; and Ohlson, Bengt E., to Consolidated Foods Corporation, mesne. End closure for a disposable vacuum cleaner dust bag. 3,432,997, 3-18-69, Cl. 55-367.

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Downey, George T.; and Sample, William J., to Aero-Flow Dynamics, Inc. Combination filter and surge resistant bypass valve. 3,442,384, 5-6-69, Cl. 210-90.

Downey, Holmes A., to Reliance Electric Company. Coupling with reinforced flexible element. 3,468,138, 9-23-69, Cl. 64-11.

Downey, Martin W.; and Jones, Lloyd K., to Sterling Faucet Company. Push-actuated drain valve. 3,428,295, 2-18-69, Cl. 251-263.

Downey, Rogers B., to Polaroid Corporation. Photographic apparatus. 3,455,222, 7-15-69, Cl. 95-13.

Downey, Rogers B.; and Cook, Gerald H., to Polaroid Corporation. Photographic apparatus. 3,421,423, 1-14-69, Cl. 95-13.

Downey, Rogers B.; and Silverman, Allyn M., to Polaroid Corporation. Camera apparatus. 3,437,023, 4-8-69, Cl. 95-13.

Downey, Rogers B.; and Silverman, Allyn M., to Polaroid Corporation. Camera apparatus. 3,437,024, 4-8-69, Cl. 95-13.

Downey, Rogers B.: *See—*
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Downie, Robert R. Machine key structure. 3,428,343, 2-18-69, Cl. 287-52.05

Downing, Arthur H.; and Janis, Peter, to Raytheon Company. Coaxial attenuator for traveling wave devices. 3,465,198, 9-2-69, Cl. 315-3.5

Downing, Brian York, to British Industrial Plastics Limited. Aqueous solutions of water-soluble alkyd resin and water-soluble amino resin having carboxylic groups. 3,444,114, 5-13-69, Cl. 260-21.

Downing, Brian York, to British Industrial Plastics Limited. Alkylated amino resin trans-etherified with hydroxy carboxylic acid. 3,464,946, 9-2-69, Cl. 260-29.4

Downing, Edward T., to Raytheon Company. Anode structure for microwave frequency oscillators. 3,444,429, 5-13-69, Cl. 315-39.75

Downing, Edward T.; and Plumridge, Robert F., to Raytheon Company. Turnable coaxial cavity magnetron. 3,435,284, 3-25-69, Cl. 315-39.61

Downing, Eric William; and Goddard, Brian Walter, to Lucas, Joseph, (Industries) Limited. Electrical speed control for an internal combustion engine. 3,460,521, 8-12-69, Cl. 123-102.

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Downing, Robert D., to General Electric Company. Electron beam welding apparatus. 3,466,420, 9-9-69, Cl. 219-121.
Downing, Ronald T. Tube joint having buckled locking means. 3,467,414, 9-16-69, Cl. 285-382.2
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methyl phenyl-N',N'-di-methyl formamidine. 3,467,757, 9-16-69, Cl. 424y326.
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Durkee, Jackson L.; Wall, William C.; and Lester, Raymond H., to Bethlehem Steel Corporation. Plastic coated cable and method of making same. 3,457,717, 7-29-69, Cl. 57-149.

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Duthion, Louis; Hafenscher, Michel Serge Daniel; and Cabassut, Andre Emile Roger, to Societe Bertin & Cie. Jet engine exhaust silencer. 3,436,020, 4-1-69, Cl. 239-265.13

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Dyke, Herbert Gordon. Expansible carrying case with band latch. 3,450,237, 6-17-69, Cl. 190-44.
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Dykema, James A.; and Johnson, Roger D., to Donnelly Mirrors, Inc. Shatter resistant rearview mirror. 3,427,096, 2-11-69, Cl. 350-288.
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Elliott, William S., to Collins Radio Company. Electronically tuned filter. 3,480,888, 11-25-69, Cl. 333-73.

Elliott, William T.; and Harris, Kenneth H., to Elliott Die & Tool, Inc. Air pressure detection system. 3,420,403, 1-7-69, Cl. 221-1.
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Ellis, Howard Dale. Ear stripping mechanism for harvester for sweet corn. 3,473,303, 10-21-69, Cl. 56-17.
Ellis, James Leslie, to Owens-Illinois, Inc. Glass compositions. 3,459,569, 8-5-69, Cl. 106-52.
Ellis, James N., to Lear Siegler, Inc. Permanent magnet generator. 3,444,405, 5-13-69, Cl. 310-156.
Ellis, James P. Two-way wall brace. 3,430,397, 3-4-69, Cl. 52-227.
Ellis, Jarrett R.; and Weidman, William H., to Harris-Intertype Corporation. Shock absorber for rotary printing press cylinders. 3,453,956, 7-8-69, Cl. 101-217.
Ellis, Joe D. Vehicle air conditioner with electrical drive means. 3,475,919, 11-4-69, Cl. 62-228.
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Ellis, John H.; and Miokiff, Valva C., to University of Kentucky Research Foundation, The, mesne. Multiple-unit pipetting assembly and pipette for use therein. 3,444,742, 5-20-69, Cl. 73-425.6
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Ellis, Jonas; and Hamilton-Fey, John, to International Computers and Tabulators Limited. Paper carriage shifting means in high speed line printers. 3,420,166, 1-7-69, Cl. 101-93.
Ellis, Kenneth A., to Varco-Pruden, Inc., mesne. Elimination of twists and bends from elongated cold roller formed members. 3,456,471, 7-22-69, Cl. 72-177.
Ellis, Leslie M., to Keystone Consolidated Industries, Inc. Record changer holddown latch assembly. 3,460,210, 8-12-69, Cl. 24-211.
Ellis, Linus, du Pont de Nemours, E. I. and Company. 5-Oxo-1,4,2-dioxazines and preparation from α-amidooxy acids. 3,420,824, 1-7-69, Cl. 260-244.
Ellis, Lonnie T. Apparatus with color coded board and chance means. 3,433,483, 3-18-69, Cl. 273-134.
Ellis, Robert Hunter; and Lund, Peter Arvid, to United Engineering and Foundry Company. Flying shear with alternately operative drive motors. 3,438,296, 4-15-69, Cl. 83-299.
Ellis, Roger H., to Raychem Corporation. Heat recoverable article and process. 3,455,336, 7-15-69, Cl. 138-156.
Ellis, Rollo G., to Elox Inc., mesne. Electrode feed and wear compensation mechanism for electrical discharge machining apparatus. 3,462,576, 8-19-69, Cl. 219-69.
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Ellis, Stafford Malcolm, to Elliott Brothers (London) Limited. Driving of displaceable members. 3,472,084, 10-14-69, Cl. 74-89.
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Ellis, Stancel C.; Hersel, Jorge J.; Johnson, Louis H.; Nelson, Ralph H.; and Yost, Roderick A., to Monsanto Company. Automatic pneumatic color comparator apparatus and process. 3,454,342, 7-8-69, Cl. 356-195.
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Ellis, William H.; and Carlston, Earl F., to Chevron Research Company. Thixotropic, non-sag, one-coat paints containing binary mixtures of oil modified alkyds having different oil lengths. 3,475,360, 10-28-69, Cl. 260-22.
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Elmendorf, Armin. Method of filling open defects in veneer. 3,478,791, 11-18-69, Cl. 144-310.
Elmendorf, Armin. Orienting wood strands. 3,478,861, 11-18-69, Cl. 198-33.

Elmendorf, Armin; Etzold, Roland; and Vaughan, Thomas W., to Elmendorf, Armin. Method of upgrading low grade plywood. 3,457,094, 7-22-69, Cl. 117-2.
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Elmore, Austin E.; and Uhlmann, Ernest A. Closure for a fluid dispensing container having a flexible slitted diaphragm. 3,445,042, 5-20-69, Cl. 222-212.
Elmore, John E. Safety bolt for motor vehicle doors. 3,425,731, 2-4-69, Cl. 292-335.
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Elmquist, Lyle F.; and Kamal, Marwan R., to General Mills, Inc. Process for rendering cellulosic and fibrous materials oil-water-repellent and product there- from. 3,462,295, 8-19-69, Cl. 117-143.
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Eloy, Fernand G. F.; and Van Overstraeten, Andre, to Union Carbide Corporation. Benzooxathiazepines and process therefor. 3,420,849, 1-7-69, Cl. 260-327.
Eloy, Pierre, to Glaverbel S.A. Method and apparatus for manufacturing float glass with internal circulatory bath heat exchange. 3,438,761, 4-15-69, Cl. 65-99.
Elpern, Marlin. Light valve system. 3,447,862, 6-3-69, Cl. 350-269.
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Elsenheimer, Charles W., to Prentice Corporation. Adjustable closure devices. 3,484,907, 12-23-69, Cl. 24-206.
Elsevier, William; and Read, Douglas E., to International Paper Company. Process for pre-treating facing sheets for gypsum boards. 3,463,685, 8-26-69, Cl. 156-44.
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Elsner, Bertram F.; and Elsner, Frank, Jr., to Elsner Engineering Works, Inc. Cone head assembly for winding machines. 3,430,887, 3-4-69, Cl. 242-68.2
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Embree, Milton L.; Haag, Arthur V.; and Vedder, Dietrih, to Bell Telephone Laboratories, Incorporated. Ramp-controlled selection circuit for simultane- ously enabled negative resistance devices. 3,421,030, 1-7-69, Cl. 307-324.

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Embry, Louise. Sled convertible into wagon and other devices. 3,429,582, 2-25-69, Cl. 280-7.12

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Engelbrecht, Rudolf S., to Bell Telephone Laboratories, Incorporated. Broadband angle resolver for phased array receiving systems. 3,458,836, 7-29-69, Cl. 333-18.

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Evenson, Robert B., deceased; Mac Quoid, George E.; and Evenson, Lucille B.; executrix. Illuminated free-swinging signboard. 3,484,973, 12-23-69, Cl. 40-128.
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Everett, Lilian F., to Texfoam International Limited. Resilient materials. 3,464,872, 9-2-69, Cl. 156-79.
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Everett, Wilhelm S. Sound muting and filtering device. 3,454,129, 7-8-69, Cl. 181-56.
Everett, Wilhelm S. Fluid pulsation dampener with thimble. 3,470,979, 10-7-69, Cl. 181-56.
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Evers, Konrad, to Sulzer Brothers Limited. Positively operated steam generator. 3,452,722, 7-1-69, Cl. 122-448.
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Farr, Glyn P. R., to Girling Limited. Brake adjusters. 3,442,357, 5-6-69, Cl. 188-196.
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Fortune, William J. Guide and work holder for making router cuts. 3,450,001, 6-17-69, Cl. 90-12.
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Fosker, George Robert; and Nayler, John Herbert Charles, to Beecham Group Limited. α-Phthalimidobenzylpenicillin. 3,453,264, 7-1-69, Cl. 260-239.1
Foskett, Roger D., to Dynamics Research Corporation. Photoelectric incremental encoder providing output indication of amount and direction of relative motion between two members. 3,449,588, 6-10-69, Cl. 250-231.
Fosler, John R., to General Motors Corporation. Unbalanced sensing switch assembly for centrifugal machines. 3,422,957, 1-21-69, Cl. 210-144.
Fosler, John R.; and Sharpe, Verlos G., to General Motors Corporation. Washing machine support assembly. 3,476,253, 11-4-69, Cl. 210-365.
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Foster, Andrew McMechan, to Hollingsworth & Vose Company. Method of forming glass-asbestos water-laid sheet. 3,441,472, 4-29-69, Cl. 162-145.
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Foster, George H.; and Lomax, Donald P., to Xaloy Incorporated. Pressure balancing means for cylinders for injection molding and extrusion. 3,456,298, 7-22-69, Cl. 18-30.
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Fouche, Jean Clement Louis, to Rhone-Poulenc S.A. 11-Piperazino-dibenzocycloheptadiene derivatives. 3,462,436, 8-19-69, Cl. 260-268.

Fouche, Jean Clement Louis, to Rhone-Poulenc S.A.11-(4-Piperidyl) dibenzo [a,d] cycloheptadienes. 3,476,758, 11-4-69, Cl. 260-293.

Fouche, Jean Clement Louis, to Rhone-Poulenc S.A.10-and 11-(4-piperidyl) dibenzo[a,d] cycloheptatrienes. 3,476,761, 11-4-69, Cl. 260-293.4

Fouche, Jean Clement Louis, to Rhone-Poulenc S.A.5H-Dibenzo [a,d]-cycloheptatriene 10 or 11-(1,2,3, 6-tetrahydro-4-pyridyl) and derivatives thereof. 3,479,356, 11-18-69, Cl. 260-253.

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Foulletier, Louis, to Ugine Kuhlmann. Process for preparation of chlorotrifluoro- methane. 3,450,779, 6-17-69, Cl. 260-653.

Foulquier, Henri; and Peyrot, Jean-Pierre, to Commissariat a l'Energie Atomique. Welding process and apparatus. 3,441,710, 4-29-69, Cl. 219-125.

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Foulquier, Henri; Roudier, Rene; and Thome, Paul, to Commissariat a l'Energie Atomique. Device for welding parts by electron bombardment. 3,463,899, 8-26-69, Cl. 219-121.

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Frank, Alan I., to Scan-Data Corporation. Data entry system. 3,487,371, 12-30-69, Cl. 340-172.5

Frank, Albert; Kraushaar, Alfred; Margreiter, Hans; and Schunk, Roland, to Biochemie G.m.b.H.2-(β-Hexamethylene imino ethyl) cyclohexanone- 2-carboxylic acid benzyl ester and salts thereof. 3,432,490, 3-11-69, Cl. 260-239.

Frank, Alfred L.; and Lengenfelder, Frank J., to United States of America, Navy. Vacuum/inert gas quenching chamber. 3,475,014, 10-28-69, Cl. 266-4.

Frank, Arlen W., to Hooker Chemical Corporation. Di-o-biphenylyl diphenyl bisphenol a bis phosphate and process. 3,422,453, 1-14-69, Cl. 260-930.

Frank, Arlen W.; and Gordon, Irving, to Hooker Chemical Corporation. Novel quaternary phosphonium salts. 3,459,795, 8-5-69, Cl. 260-526.

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Frank, Bernard, to Franzus, Industries, Inc. Fabric treatment means and methods. 3,470,719, 10-7-69, Cl. 68-222.

Frank, Bernard, to Franzus Industries, Inc. Portable clothes steamer. 3,485,065, 12-23-69, Cl. 68-222.

Frank, Carl H. Carrying bag having oppositely curved slots in upper panel portions of bag and flexible removable handle. 3,456,865, 7-22-69, Cl. 229-54.

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Frank, Karl. Method of warp knitting. 3,474,644, 10-28-69, Cl. 66-86.
Frank, Karl; and Heilmann, Max, to Agfa-Gevaert Aktiengesellschaft. Developer compositions containing sequestering agents. 3,467,521, 9-16-69, Cl. 96-66.1
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Frank, Louis M., to Lase Co., The. Light activated trigger for photographic flash system. 3,487,221, 12-30-69, Cl. 250-212.
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Franklin, Theodore P. Traction device for automotive vehicles. 3,428,151, 2-18-69, Cl. 188-4.
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Frassanito, John R.; Jorgensen, Hugh V.; and Brout, Robert Benedicte. Manually operated motor means. 3,443,664, 5-13-69, Cl. 185-15.

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Frauendorf, Manfred. Pre-spotting unit for dry cleaning. 3,427,831, 2-18-69, Cl. 68-240.

Frauendorf, Manfred. Garment-treating machine for outer coats and jackets. 3,428,228, 2-18-69, Cl. 223-70.

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Freidmann, Eric Helmuth; Trembath, Timothy Richard; Cancrinus, Hendrik; and Fourie, Philip John, to Inpower Works (Proprietary) Limited. Fluid torque transmitter. 3,425,298, 2-4-69, Cl. 74-752.
Freier, Gerald H., to V-M Corporation. Record changer spindle. 3,442,514, 5-6-69, Cl. 274-10.
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Freifeld, Milton; Mills, George S.; and Nelson, Richard J., to GAF Corporation. Polyurethane elastomers containing an interpolymer or an α,β-unsaturated dicarboxylic acid anhydride and an ethylenically unsaturated monomer. 3,426,099, 2-4-69, Cl. 260-859.
Freifelder, Morris, to Abbott Laboratories. β-Hydroxylaminobenzoylaminoacetonitriles and preparation thereof. 3,455,987, 7-15-69, Cl. 260-465.
Freightliner Corporation: *See—*
Evens, Robert L.; Lewis, Douglass H.; and Chew, Norman Bradford, 3,436,900.
Freihofer, Alexis, to Ruti Machinery Works Ltd. Arrangement for transferring yarn on a weaving loom. 3,430,666, 3-4-69, Cl. 139-125.
Freihofer, Alexis, to Ruti Machinery Works Ltd., formerly Casper Honegger. Weaving shuttle. 3,434,507, 3-25-69, Cl. 139-125.
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Freiman, Freddy Herman. Means for automatically controlling the tension of a continuously advancing element. 3,486,713, 12-30-69, Cl. 242-155.
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Freise, William G.; and Przybyszewski, Benjamin M., to Paymax Syrup Corporation. Beverage dispensing device. 3,421,430, 1-14-69, Cl. 99-289.
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Freitas, Ernest R.; Dunn, Clarence L.; and Zarker, Keith E., to Shell Oil Company. Method of separating acidic gases from gaseous mixture. 3,463,603, 8-26-69, Cl. 23-2.
Freldlander, Abraham L.; Matthews, Robert E.; and Garrett, Wayne C., to Dayco Corporation. Multiple edge mower blade. 3,449,894, 6-17-69, Cl. 56-295.
Fremont, Robert D., to Colt's Inc. Firearm box magazine with straight end and intermediate arcuate portions. 3,440,751, 4-29-69, Cl. 42-50.
Fremont, Robert D., to Colt's Inc. Disposable magazine having a protective cover and follower retaining means. 3,453,762, 7-8-69, Cl. 42-50.
Fremont, Robert S., to McGraw-Edison Company, mesne. Signs. 3,478,455, 11-18-69, Cl. 40-132.
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French, Elby Edward, to O.K. Tire and Rubber Co., Inc. Adjustable bolt circle wheel. 3,428,365, 2-18-69, Cl. 301-9.
French, Elby Edward, to O.K. Tire and Rubber Co., Inc. Pneumatic tire run-in machine. 3,464,264, 9-2-69, Cl. 73-146.
French, Fred W., to Valley Metallurgical Processing Company, mesne. Method of reforming tubular metal blanks into inner-fin tubes. 3,422,518, 1-21-69, Cl. 29-157.3
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French, Heyward A., to International Telephone and Telegraph Corporation. Diversity receiving system with a voltage controlled oscillator coupled to a crystal controlled oscilla- tor in at least one channel. 3,444,471, 5-13-69, Cl. 325-304.
French, Howard V. Water jet propulsion means. 3,447,324, 6-3-69, Cl. 60-221.
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French, Jack W.; Lewanski, Richard M.; and Modry, Richard E., to Sommer & Maca Glass Machinery Company. Form cleaner assembly. 3,456,277, 7-22-69, Cl. 15-77.
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French, James R., Jr., to United States of America, Air Force. Process for the disposal of contaminated liquid fluorine. 3,466,885, 9-16-69, Cl. 62-48.
French, Kendric R. Ship propulsion system. 3,463,115, 8-26-69, Cl. 115-35.
French, Larry J., to Radio Corporation of America. Electro-optical memory. 3,440,620, 4-22-69, Cl. 340-173.
French, Lionel J. B. R. Bookbinding machinery. 3,466,682, 9-16-69, Cl. 11-1.
French, Marcus: *See—*
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French, Park, to TRW Inc. Dynamoelectric machine having corresponding ferromagnetic coils on alternating rotor and stator disks. 3,436,571, 4-1-69, Cl. 310-46.
French, Raymond J., to General Electric Company. Treating agent dispenser for automatic washing machine. 3,426,944, 2-11-69, Cl. 222-129.
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French, Walter K., to International Business Machines Corporation. Voice verification system. 3,466,394, 9-9-69, Cl. 179-1.
French, Walter K., to International Business Machines Corporation. Apparatus for taking fingerprints. 3,479,987, 11-25-69, Cl. 118-31.5
French, Walter K.; and Taylor, Richard, 20% each to Jaffin, George M., and Basseches, Mark T. Credit card carrier. 3,444,914, 5-20-69, Cl. 150-39.
Frenger, Friedrich, to Vickers-Zimmer Aktiengesellschaft, Planung und Bau von Industrieanlagen. Braking device for thread-form material. 3,423,045, 1-21-69, Cl. 242-154.
Frenk, Helmuth, to Leitz, Ernst, G.m.b.H. Method and apparatus for tracing a track. 3,450,934, 6-17-69, Cl. 315-10.
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Frenkel, Francis, to American Liquid Instruments, Inc. Sampling liquid level measuring device. 3,442,017, 5-6-69, Cl. 33-126.4
Frensch, Heinz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Fungicidal compositions containing copper bis- dimethyl acrylate. 3,426,132, 2-4-69, Cl. 424-294.
Frensch, Heinz; Goebel, Helmut; and Hartel, Kurt, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Seed protectant compositions containing mixtures of 3,3,4,4-tetrachlorotetrahydrothiophene with other fungicides. 3,461,209, 8-12-69, Cl. 424-274.
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Frenzel, Bertram, to VEB Nahwerkmaschinenbau Malimo Karl-Marx-Stadt. Device for driving the yarn layer of a textile machine. 3,440,840, 4-29-69, Cl. 66-84.

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Freudenstein, Ferdinand. Intermittent motion mechanism employing non- circular gears. 3,424,021, 1-28-69, Cl. 74-394.
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Freund, Paul. Self-sealing coke oven door construction. 3,486,986, 12-30-69, Cl. 202-248.
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Frevel, Ludo K., to Dow Chemical Company, The. Wet bottom boiler floor or the like. 3,479,993, 11-25-69, Cl. 122-235.
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Frey, Albert J.; Houlihan, William J.; and Manning, Robert E., to Sandoz Inc.Pyrrolo, pyrido, and azepino[2,3-b]indoles. 3,457,268, 7-22-69, Cl. 260-293.
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Frey, Alexander H., Jr., to International Business Machines Corporation. Burst error correction system. 3,487,361, 12-30-69, Cl. 340-146.1
Frey, Alexander H., Jr., to International Business Machines Corporation. Transmission error detection and correction system. 3,487,362, 12-30-69, Cl. 340-146.1
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Frey, Cleon F., to Comel International Corporation. Wire controlled flasher switch. 3,486,153, 12-23-69, Cl. 337-133.
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Frey, Hubertus G., to General Time Corporation. Dial lighting assembly for clocks. 3,452,538, 7-1-69, Cl. 58-50.
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Frey, Stuart M., to Ford Motor Company. Integrated hinge and door check assembly. 3,431,589, 3-11-69, Cl. 16-145.
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Freytag, Karl-Heinz; Taube, Carl; and Seidel, Bernhard, to Agfa-Gevaert Aktiengesellschaft. Photographic materials for the silver dye-bleach process. 3,480,438, 11-25-69, Cl. 96-99.
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Pierce, Andrew G., Jr.; and Frick, John G., Jr.,3,441,367.
Frick, Richard H., to Kimberly-Clark Corporation. Sheet material assembly with interfolded webs including half web folds. 3,462,043, 8-19-69, Cl. 221-48.
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Frick, Roy C.; Calvin, Victor E.; Sharpe, John C.; and Rowe, William Wallace, to Cincinnati Industries Inc. Universally stretchable paper laminate. 3,483,071, 12-9-69, Cl. 161-129.
Fricke, Betty W. Collapsible bedspread holder. 3,435,469, 4-1-69, Cl. 5-320.
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Frye, Alfred H., to Cincinnati Milling Machine Co., The. Oxidation of olefinic compounds with solutions of thallium (III) salts. 3,452,047, 6-24-69, Cl. 260-340.5
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Fuchs, Benjamin H. Underreamer having unequal arm extension radii. 3,483,934, 12-16-69, Cl. 175-267.
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Gabriel, Ralph P.; and Kinross, Rupert I., to Communications Patents Limited. Signal transmission cable. 3,433,890, 3-18-69, Cl. 174-116.
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Gagne, Archie R. Amphibious vehicle. 3,469,553, 9-30-69, Cl. 115-1.

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Gallin, Paul G. Hat with crown shaping and inclination means. 3,473,168, 10-21-69, Cl. 2-195.
Gallina, Kurt, to Main, C. Eugen, Metaverarbeitung G.m.b.H. Flyer for spinning yarn. 3,474,614, 10-28-69, Cl. 57-117.
Gallinger, Jay S., to Galaxie Manufacturing Co. Process for forming serrated flanged pipe. 3,451,243, 6-24-69, Cl. 72-124.
Gallion, Jacque K. Drilling device. 3,464,295, 9-2-69, Cl. 77-55.
Gallion, Walter L.: *See—*
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Gallistel, Albert F., to Pako Corporation. Automatic film feeder. 3,451,604, 6-24-69, Cl. 226-56.
Gallo, Charles F., to Xerox Corporation. Negative corona discharge system using alternating electric fields across the air gap. 3,433,948, 3-18-69, Cl. 250-49.5
Gallo, Charles F.: *See—*
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Roth, Walter; Gallo, Charles F.; and Leiga, Algird G.,3,481,669.
Gallo, E & J, Winery: *See—*
Peterson, Richard G.; and Fujii, George R., 3,437,491.
Peterson, Richard G.; and Jaffe, Emanuel B., 3,484,254.
Gallo, Frank. Method and apparatus for dispensing extra-l packages from machines designed for ordinary length packages. 3,452,900, 7-1-69, Cl. 221-251.
Gallo, John, Sr. Speed tool with guide pin. 3,449,988, 6-17-69, Cl. 81-90.
Gallo, Joseph Sabeto. Cut flower encasing sheath. 3,474,568, 10-28-69, Cl. 47-55.
Gallo, Jules R.; Smith, William W.; and Boissevain, Mathew G., to FMC Corporation. Conveyor system. 3,448,870, 6-10-69, Cl. 214-16.
Gallo, Louis J., 33 1/3 to Epsteen, Peter. Automobile door and window safety lock. 3,435,645, 4-1-69, Cl. 70-183.
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Gallo, Michael S. Portable fog sprayer. 3,426,975, 2-11-69, Cl. 239-341.
Gallois, Jacques, to Societe d'Etudes de Machines Thermiques. Antifretting assembly. 3,455,587, 7-15-69, Cl. 287-189.36
Galloway, Arthur Lyle, to Diamond Shamrock Corporation. Mildew eradicant compositions. 3,456,055, 7-15-69, Cl. 424-304.
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Galloway, George W.; and Nofzinger, Earl E., 3,440,710.
Galloway, George W.; and Blanchard, Albert E., 3,468,398.
Galloway, George W.; and Blanchard, Albert E., to Galloway, G. W., Company. Multistage linear motor with means for locking the stages thereof against relative rotary movement. 3,468,398, 9-23-69, Cl. 182-141.
Galloway, George W.; and Nofzinger, Earl E., to Galloway, G. W., Company. Method of fabricating a continuous rod warhead assembly. 3,440,710, 4-29-69, Cl. 29-471.9
Galloway, J. Robert; and Galloway, Robert K. Carton. 3,432,086, 3-11-69, Cl. 229-37.
Galloway, James. Device for reducing the evaporation of water from dams, tanks and like water storage units. 3,462,040, 8-19-69, Cl. 220-26.
Galloway, Louie A., Jr. Barbecue grill and the like. 3,438,364, 4-15-69, Cl. 126-25.
Galloway, Robert K.: *See—*
Galloway, J. Robert; and Galloway, Robert K.,3,432,086.
Galloway, Robert K. Apparatus for transferring articles from one station to another. 3,456,816, 7-22-69, Cl. 214-8.5
Galloway, Victor A., to Equipment Manufacturing, Inc. Sheet material palletizing apparatus. 3,433,372, 3-18-69, Cl. 214-6.
Gallucci, Francis: *See—*
Britcher, Harry H., Jr.; and Gallucci, Francis,3,459,312.
Gallucci, Francis, to United States Steel Corporation. Starter bar for continuous metal casting apparatus. 3,448,789, 6-10-69, Cl. 164-274.
Gallus, Geza. Apparatus for kneading and shaping lumps of dough. 3,461,821, 8-19-69, Cl. 107-15.
Gallus, Julius P., to Union Oil Company of California. Low fluid loss well treating composition and method. 3,455,390, 7-15-69, Cl. 166-295.
Galmiche, Philippe Marie; and Hivert, Andre, to Office National d'Etudes et de Recherches Aerospatiales, O.N.E.R.A. Methods of making alloy powders and the corresponding powders. 3,449,115, 6-10-69, Cl. 75-0.5
Galopin, Anthony G. Photoelectric semiconductor device with optical fiber means coupling input signals to base. 3,423,594, 1-21-69, Cl. 250-211.
Galster, Thomas H.; and Michaels, Thomas B., to Xerox Corporation. Flash lamp for electroscopic toner. 3,465,203, 9-2-69, Cl. 315-173.
Galt, Ronald Hilson Begg, to Imperial Chemical Industries Limited. Derivatives of 5-hydroxyquinoxaline-1,4 dioxide. 3,479,354, 11-18-69, Cl. 260-250.
Galutia, Glen T. Precision countersink tool. 3,439,566, 4-22-69, Cl. 77-73.5
Galutia, Glen T. Riveting gun bucker attachment. 3,478,567, 11-18-69, Cl. 72-457.
Galvin, Daniel M.; and Galvin, Patrick J. Retractable truck box cover. 3,423,126, 1-21-69, Cl. 296-98.
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Gambaretto, Gian Paolo; Rinaldo, Paolo; and Palato, Mario, to Montecatini Edison S.p.A. Flame-extinguishing compositions. 3,479,286, 11-18-69, Cl. 252-8.
Gambella, George; and Gambella, Thomas, to Web Offset Publications Corporation. Water dampening system with soft driven wheels and hard drive wheels. 3,455,238, 7-15-69, Cl. 101-148.
Gambella, Thomas: *See—*
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Gambella, Vincent; and Daniel, Nathan I., to Danelectro Corporation, The, mesne. Bridge construction in guitar-like instruments. 3,422,715, 1-21-69, Cl. 84-307.
Gamber, Erwin J.; and Rauschenbach, Roger R., to Aluminum Company of America. Refractory composition. 3,436,236, 4-1-69, Cl. 106-56.
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Gamberini, Goffredo, to American Machine & Foundry Company. Automatic cigarette catcher. 3,427,782, 2-18-69, Cl. 53-78.
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Gambill, Charles C., to General Motors Corporation. Temperature responsive magnetically actuated switch. 3,430,166, 2-25-69, Cl. 335-146.
Gambill, Charles C., to General Motors Corporation. Infinite heat control with quick heating. 3,474,227, 10-21-69, Cl. 219-450.

Gambino, Lawrence A.Children's build-it-yourself toy. 3,473,257, 10-21a69, Cl. 46-104.
Gamble, Elton S., to Olin Mathieson Chemical Corporation. Coating composition. 3,464,839, 9-2-69, Cl. 106-57.
Gamble, George W. Paramagnetic fluid analyzer utilizing toroidal fluid containers and an inductance bridge. 3,447,073, 5-27-69, Cl. 324-36.
Gamble, James R., to Westinghouse Electric Corporation. Joint constructions. 3,437,554, 4-8-69, Cl. 161-206.
Gamble, Robert O.: *See—*
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Gamblin, Elton Berry, Jr. Drinking straws. 3,438,527, 4-15-69, Cl. 215-1.
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Gamblin, Rodger L., to International Business Machines Corporation. Phase sensitive microwave memory device. 3,444,539, 5-13-69, Cl. 340-174.
Gamblin, Rodger L., to International Business Machines Corporation. Microwave logic system. 3,452,212, 6-24-69, Cl. 307-88.
Gamblin, Rodger L., to International Business Machines Corporation. Monostable controlled rectifier switching circuit with variable impedance for low power dissipation and rapid recovery. 3,458,730, 7-29-69, Cl. 307-273.
Gamblin, Rodger L., to International Business Machines Corporation. Thin film microwave absorption structure. 3,466,634, 9-9-69, Cl. 340-174.
Gamblin, Rodger L.; and Lord, Philip A., to International Business Machines Corporation. Memory addresser in a microwave readout system. 3,423,741, 1-21-69, Cl. 340-174.
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Gambro, John: *See—*
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Gamelcy, Lionel; and Tischler, Henry J., to Young Spring & Wire Corporation. Spring seat construction. 3,428,975, 2-25-69, Cl. 5-354.
Gamertsfelder, Allen M. Bean bag game projectile. 3,480,280, 11-25-69, Cl. 273-106.
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Gamertsfelder, George R., to General Precision Systems, Inc. Method and means for eliminating beam reflection errors in a doppler radar system. 3,430,236, 2-25-69, Cl. 343-7.
Gamertsfelder, George R., to Singer-General Precision, Inc. Azimuth alignment system. 3,485,560, 12-23-69, Cl. 356-151.
Games, Abraham, to Imagic Limited. Copying processes. 3,463,654, 8-26-69, Cl. 117-21.
Gameson, John Jeffreys, to Telefonaktiebolaget L M Ericsson. Transistor amplifier. 3,469,201, 9-23-69, Cl. 330-15.
Gamlen, George Albert; and Ibbotson, Arthur, to Imperial Chemical Industries Limited. Process for manufacturing urethanes from alcohols and phenols, carbon monoxide and nitro compounds in the presence of transition metal complexes. 3,448,140, 6-3-69, Cl. 260-471.
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Gamma Engineering Limited: *See—*
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Gamma Inventions (PTY) Limited: *See—*
Brunton, Phillip E., 3,485,496.
Gammel, Josef, to Siemens Aktiengesellschaft. Discriminator with linear characteristic curve utilizing a bridge circuit having a branch contain- ing an inductive reactor and a branch containing a capacitive reactor. 3,421,094, 1-7-69, Cl. 329-137.
Gammel, Josef, to Siemens Aktiengesellschaft. Circuit arrangement for the reduction of inter- ference phase modulation occuring in transistor limiting stages by amplitude-modulated frequency modulation. 3,461,398, 8-12-69, Cl. 330-165.
Gammel, Josef; and Huggle, Kurt, to Siemens Aktiengesellschaft. Adjustable four-pole attenuator with constant input resistance utilizing separately heated thermistors. 3,437,933, 4-8-69, Cl. 325-415.
Gammel, Walter A., Sr.; and Strobel, John S., to Schjeldahl, G. T., Company. Demountable electrical contact arrangement. 3,437,977, 4-8-69, Cl. 339-17.
Gammeter, Harry F., to Addressograph-Multigraph Corporation. Master handling means for duplicating machines. 3,420,169, 1-7-69, Cl. 101-141.
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Gamponia, Herminio. Surgical apparatus and related process. 3,435,824, 4-1-69, Cl. 128-334.
Gamson, Bernard W., to Technical Oil Tool Corporation. Continuous percent evaporated analyzer. 3,440,865, 4-29-69, Cl. 73-61.3
Gancy, Alan B.: *See—*
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Gander, Robert J., to Johnson & Johnson. Adhesive composition. 3,475,363, 10-28-69, Cl. 260-29.7
Gandi, Robert A., to Dickinson, Becton and Company. Fluid head indicator for enema administration set. 3,463,153, 8-26-69, Cl. 128-227.
Gandilhon, Pierre: *See—*
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Gandino, Mario; Merli, Paolo; and Turilli, Oreste, to Ferrania S.p.A. Sensitized silver halide emulsions. 3,443,955, 5-13-69, Cl. 96-102.
Gandolfi, Carmelo: *See—*
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Gane, Charles E., to United States of America, Navy, mesne. Operational thin film amplifier. 3,449,683, 6-10-69, Cl. 330-21.
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Gang, Herman, to Litton Business Systems, Inc. Programming means for calculators. 3,458,125, 7-29-69, Cl. 235-62.
Gang, Herman, to Litton Business Systems, Inc. Registering mechanism. 3,472,450, 10-14-69, Cl. 235-137.
Gang, Lillian: *See—*
Calabrese, Joseph J.; and Gang, Lillian,3,436,163.
Gang, Robert E., to Varian Associates. Magnets having logarithmic curved pole caps for producing uniform fields above saturation. 3,434,085, 3-18-69, Cl. 335-297.
Gang, Robert E., to Varian Associates. Oven regulated permanent magnet having thermal lagging between the oven and the magnet. 3,474,222, 10-21-69, Cl. 219-210.
Gang, Robert E.; and Johnson, Richard L., to Varian Associates. Permanent magnet having an enclosing yoke structure with pole aligning means. 3,437,963, 4-8-69, Cl. 335-298.
Gange, Robert A., to Radio Corporation of America. Cryoelectric memory system. 3,434,121, 3-18-69, Cl. 340-173.1
Gange, Robert A.; and Nagle, Eugene, to RCA Corporation. Balanced matrix driver arrangement. 3,483,517, 12-9-69, Cl. 340-166.
Gange, Robert A.; and Thompson, John F., to Radio Corporation of America. Highly stable pulse generator. 3,430,075, 2-25-69, Cl. 307-268.
Ganger, Berthold, to Aktiengesellschaft Brown, Boveri & Cie. Insulation of bar type conductor coils of high- voltage stator windings. 3,454,804, 7-8-69, Cl. 310-260.
Ganger, Ronald N., to Blueberry Equipment, Inc. Vibratory harvesting machine. 3,485,027, 12-23-69, Cl. 56-330.
Gangitano, James. Display board apparatus. 3,473,671, 10-21-69, Cl. 211-45.
Gangloff, Jean. Pump. 3,476,054, 11-4-69, Cl. 103-87.
Ganiaris, Neophytos: *See—*
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Ganiere, Herbert Carl; and Sherwood, Edwin Theodore, to Globe-Union Inc. Multiple temperature controller. 3,470,356, 9-30-69, Cl. 219-508.
Ganko, Otto, to Patentauswertung Vogelbusch Gesellschaft m.b.H. Mixture proportioning apparatus. 3,425,501, 2-4-69, Cl. 177-70.

Ganley, Gregory J., to Honeywell Inc. Control apparatus. 3,458,678, 7-29-69, Cl. 200-166.
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Gannoe, Thomas Earl, to Sylvania Electric Products, Inc. Localized flow plating. 3,462,350, 8-19-69, Cl. 204-15.
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Gannon, Raymond J., Jr. Multiform chuck. 3,430,970, 3-4-69, Cl. 279-112.
Ganouna-Cohen, Gilbert, to Commissariat a l'Energie Atomique. Electrometer with automatic discharge. 3,436,542, 4-1-69, Cl. 250-83.6
Gans, Jerome A. Visual field tester. 3,421,498, 1-14-69, Cl. 128-2.1
Gans, Jerome A., to Mt. Sinai Hospital of Cleveland, The. Cryoextractor. 3,455,304, 7-15-69, Cl. 128-303.1
Gansauge, Albert, to VEB Fahrradwerk Elite-Diamant. Thread alternating device for flat knitting machines. 3,472,047, 10-14-69, Cl. 66-64.
Ganser, Hans Gunther; Kauer, Erhard; and Lydtin, Hans Jurgen, to U.S. Philips Corporation, mesne. Series flash-lamp unit. 3,458,270, 7-29-69, Cl. 431-95.
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Gansser, Charles; and Schindler, Walter, to Geigy Chemical Corporation. 5-(α-Dimethylamino-n-butyl) iminostilbene and salts thereof. 3,444,159, 5-13-69, Cl. 260-239.
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Ganter, Karl-Werner; Nentwig, Joachim; Zirngibl, Hans; Kappey, Hans-Joachim; Bornefeld, Horst; and Deissmann, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Readily dispersible inorganic pigments. 3,451,835, 6-24-69, Cl. 106-308.
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Gantress, Steven G. Rifle cover. 3,437,247, 4-8-69, Cl. 224-2.
Gantt, James E., to Universal Oil Products Company. Separation process for alkylated aromatic compounds and olefinic oligomerization products. 3,437,708, 4-8-69, Cl. 260-671.
Gantt, James E.; and Borst, William B., Jr., to Universal Oil Products Company. Fractionation column system operating with multiple level internal reboilers. 3,477,915, 11-11-69, Cl. 202-155.
Gantt, James E.; and Sulzbach, Thomas L., to Universal Oil Products Company. Process for aromatic alkylation and olefinic oligomerization. 3,437,706, 4-8-69, Cl. 260-671.
Gantt, Robert Dwight; and Wheeler, Robert Charles, to Sylvania Electric Products, Inc. Noise-gated sync separator and AGC for television receiver. 3,463,881, 8-26-69, Cl. 178-7.3
Gantz, Ray D., to Taylor, S. G., Chain Company, Inc. Heat transfer elements for rotary kilns. 3,442,497, 5-6-69, Cl. 263-33.
Gantz, William A., to University of California, The Regents of the. Color modulator system. 3,445,156, 5-20-69, Cl. 350-285.
Gantz, William A.; Runkle, Raymond B.; and Buchla, Donald F., to Bausch & Lomb, Incorporated, mesne. Radiation sensitive digital measuring apparatus. 3,453,441, 7-1-69, Cl. 250-231.
Gantzer, Charles J., to Sundstrand Corporation. Spur differential unit. 3,430,520, 3-4-69, Cl. 74-714.
Ganung, Robert B., to National Can Corporation. Can end. 3,441,180, 4-29-69, Cl. 222-143.
Ganz, Alexander J., to Hercules Incorporated. Edible compositions and process. 3,479,190, 11-18-69, Cl. 99-139.
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Ganz, Henry, to Continental Can Company, Inc. Carrier with center divider. 3,424,302, 1-28-69, Cl. 206-65.
Ganz, Henry, to Lorillard Corporation. Apparatus for making cigarette filters. 3,452,392, 7-1-69, Cl. 18-5.
Ganz, Robert H. Method of and apparatus for forming a package. 3,456,420, 7-22-69, Cl. 53-32.
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Garabello, Romano, to Metropolitan Petroleum Petrochemicals Co., Inc., mesne. Plunger type additive injection device. 3,422,834, 1-21-69, Cl. 137-99.
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Garaud, Jean Pierre, to Societe Rhodiaceta. Apparatus for transforming a rotary motion into an alternating linear movement. 3,465,602, 9-9-69, Cl. 74-58.
Garber, Howard A. Ice dispensing machine. 3,463,362, 8-26-69, Cl. 222-254.
Garber, John A.; Leaman, Theodore R.; and Skelly, David C., to Harbison-Walker Refractories Company. Bottom pour ladle construction. 3,421,749, 1-14-69, Cl. 266-38.
Garber, John D.; and Jones, Robert E., to Merck & Co., Inc. Method for producing 5-hydroxymethyl furfural. 3,483,228, 12-9-69, Cl. 260-347.8
Garber, Lila S. Holder for superposed business forms. 3,480,298, 11-25-69, Cl. 282-29.
Garber, Max J. Limb restraint for intravenous injections and the like. 3,480,013, 11-25-69, Cl. 128-133.
Garber, Nat; and Friedman, Sidney. Article of apparel usable as dickey or as head covering. 3,449,766, 6-17-69, Cl. 2-196.
Garber, Thomas; and Kelleher, William L., to Hewlett-Packard Company. Universal AC or DC to DC converter. 3,434,034, 3-18-69, Cl. 321-43.
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Gasser, Adolf; and Ronge, Georg, to Entwicklungs- und Forschungs-Anstalt. Method of purifying waste water. 3,446,732, 5-27-69, Cl. 210-44.
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Gattner, Gunther E.; and Jurk, Rolf F., to Siemens Aktiengesellschaft. Method of and apparatus for automatically identifying symbols appearing in written matter. 3,430,198, 2-25-69, Cl. 340-146.3

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Gaudry, Edouard, to Electrolux Corporation. Noise reduction of gear train. 3,469,470, 9-30-69, Cl. 74-443.

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Gell, Philip Anthony Maunsell; and Waterworth, Thomas Hugall, to Elemelt Limited. Furnaces for heating glass electrically. 3,440,321, 4-22-69, Cl. 13-6.

Gellatly, Robert K., to FMC Corporation. Liquid dispensing apparatus. 3,434,634, 3-25-69, Cl. 222-450.

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Geller, Alan R., to International Business Machines Corporation. Fast flush adder. 3,470,366, 9-30-69, Cl. 235-175.

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Geller, William; and Hillman, Kurt, to General Telephone & Electronics Laboratories, Incorporated. Horizontal deflection circuit. 3,423,631, 1-21-69, Cl. 315-27.

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Gelzheiser, Francis L.; and Nystrom, Charles E., to Westinghouse Electric Corporation. Circuit breaker with means for facilitating adjustment thereof. 3,467,933, 9-16-69, Cl. 337-84.

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Glover, William Frank, to International Standard Electric Corporation. Electrical windings. 3,430,176, 2-25-69, Cl. 336-172.
Glover, William Frank, to International Standard Electric Corporation. Fractional turn electrical windings. 3,467,930, 9-16-69, Cl. 336-83.
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Glucksman, Dov Zeev; and Bornstein, Richard W., to Torrington Manufacturing Company, The. Transverse flow blower unit having cavity with restricted opening adjacent cut-off section. 3,459,365, 8-5-69, Cl. 230-125.
Glucksman, Dov Zeev; and Fay, Thomas W., to Torin Corporation. Low noise ninety degree transverse flow blower with improved housing and vortex control member. 3,477,635, 11-11-69, Cl. 230-125.
Gluckstein, Martin E., to Ethyl Corporation. Jet engine deposit modification. 3,442,631, 5-6-69, Cl. 44-68.
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Godtfredsen, Wagn Ole; and Von Daehne, Welf, to Lovens Kemiske Fabrik Produktionsaktieselskab. Compounds with anti-hormonal activity which are of the 4α, 8α,14β-trimethyl-18-nor-androstane series, including esters. 3,463,798, 8-26-69, Cl. 260-397.45
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Golden, Richard L.; and Mazzella, Gerald, to Halcon International, Inc. Recovery of boron compounds from oxidation mixtures. 3,423,471, 1-21-69, Cl. 260-617.
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Goldfarb, Adolph E.; and Davis, Jane Betts. Self-contained contact alarm device. 3,465,325, 9-2-69, Cl. 340-258.
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Goldsobel, Norman; and Eidelberg, Jonah, to Electrical Fittings Corporation. Rain tight electrical connector. 3,454,291, 7-8-69, Cl. 285-371.
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Gonzalez, Gerardo A., to Betz Laboratories, Inc. Anti-foulant agents for petroleum hydrocarbons. 3,442,791, 5-6-69, Cl. 208-48.
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Good, Arthur L., to Robertshaw Controls Company. Pressure or temperature regulator. 3,447,116, 5-27-69, Cl. 337-327.
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Good, Paul J., to Minnesota Mining and Manufacturing Company. Intermittent film advancement apparatus. 3,441,186, 4-29-69, Cl. 226-62.
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Goode, Robert W. Brake control for cable tensioning apparatus. 3,443,840, 5-13-69, Cl. 303-11.

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Goodenough, Robert D.; and Kelly, James A., to Dow Chemical Company, The. Process for removing alkali metal sulfates from alkali metal hydroxide solution. 3,423,187, 1-21-69, Cl. 23-296.

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Goodlander, Samuel W., to Baldwin, D. H., Company. Mounting string plates musical instruments. 3,437,000, 4-8-69, Cl. 84-188.

Goodloe, David K.; and Marshall, Jimmy W. Fire prevention, detection and extinguishing system. 3,486,562, 12-30-69, Cl. 169-11.

Goodman, Abraham H.; Pettinato, Edward F.; Kroll, Alfred; and Lipka, David H., to DCA Food Industries, Inc. Method of producing frozen comestibles. 3,475,182, 10-28-69, Cl. 99-136.

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Goodman, Daniel J. Hot stick. 3,473,837, 10-21-69, Cl. 294-19.

Goodman, Daniel Joseph. Automatic hot line breakaway clamp. 3,432,800, 3-11-69, Cl. 339-109.

Goodman, David M. Electron devices with planar electrodes, and means for terminating transmission lines with same. 3,457,515, 7-22-69, Cl. 325-445.

Goodman, Edward G. Chum dispenser. 3,459,247, 8-5-69, Cl. 146-192.

Goodman, Ernest A.; and Johnston, Richmond P., to Allis-Chalmers Manufacturing Company. Switch arrangement for changing transformer voltage ratio. 3,440,586, 4-22-69, Cl. 336-147.

Goodman, Ernest A.; Mutschler, William H., Jr.; and Anderson, John M., to Allis-Chalmers Manufacturing Company. Underground electrical distribution system. 3,443,113, 5-6-69, Cl. 307-17.

Goodman, Henry G., Jr.; and Dupraz, Carol A., to Union Carbide Corporation. Process for preparing of aliphatic monocarbamates. 3,449,406, 6-10-69, Cl. 260-482.

Goodman, Herman W. Rigidly mounted removable fixed bridge. 3,442,015, 5-6-69, Cl. 32-6.

Goodman, Isaac S., to Westinghouse Electric Corporation. Hermetic sealing of refractory metal tubing. 3,444,348, 5-13-69, Cl. 219-117.

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Goodman, Robert C.; and Boston, Robert L., to GAF Corporation. Thermographic developing apparatus. 3,449,547, 6-10-69, Cl. 219-216.

Goodman, Robert C.; and Mastroianni, Emilio G., to GAF Corporation. Photocopy developing apparatus. 3,435,751, 4-1-69, Cl. 95-94.

Goodman, Robert C.; and Sames, Delbert W., to GAF Corporation. Apparatus for selectively feeding and severing webs from a plurality of sources. 3,452,627, 7-1-69, Cl. 83-110.

Goodman, Robert C.; and Sames, Delbert W., to GAF Corporation. Photocopy apparatus having roll sheet material support means. 3,480,222, 11-25-69, Cl. 242-55.3

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Goodman, Robert M., Jr., to Scientific-Atlanta, Inc. Rotray joint utilizing a fluid slip ring. 3,483,307, 12-9-69, Cl. 174-21.

Goodman, Robert M., to Franklin Institute, The. Subminiature digital recorder. 3,430,256, 2-25-69, Cl. 346-107.

Goodman, Robert. Foldable bed with adjustable contour bed spring. 3,456,269, 7-22-69, Cl. 5-66.

Goodman, Robert. Vertically adjustable table. 3,472,183, 10-14-69, Cl. 108-147.

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Goodman, Willard B., to Shell Oil Company. Pneumatic transformer coupling for sonic pile driver. 3,463,251, 8-26-69, Cl. 175-19.

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Gordon, Eugene I., to Bell Telephone Laboratories, Incorporated. Light beam controlling system. 3,435,228, 3-25-69, Cl. 250-199.
Gordon, Eugene I., to Bell Telephone Laboratories, Incorporated. Acoustic light modulator and variable delay device. 3,462,603, 8-19-69, Cl. 250-199.
Gordon, Eugene I., to Bell Telephone Laboratories, Incorporated. Gunn-effect light modulator. 3,475,078, 10-28-69, Cl. 350-160.
Gordon, Fred G.; and Hermstad, Norman H., to Time & Motion Dentistry Corporation of America. Dental unit. 3,427,719, 2-18-69, Cl. 32-22.
Gordon, George F., to Dennison Manufacturing Company. Apparatus for stretching plastic filaments. 3,457,589, 7-29-69, Cl. 18-1.
Gordon, Gerome; and Barth, George J., Jr. Atmospheric seals. 3,438,617, 4-15-69, Cl. 263-40.
Gordon, Glenn A., Jr. Sealable commode. 3,444,563, 5-20-69, Cl. 4-142.
Gordon, Irving: *See*—
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Gordon, Irving; Hodan, James J.; and Dever, James L., to Hooker Chemical Corporation. Process for preparing bisphosphite esters of alkylidene diphenol. 3,448,179, 6-3-69, Cl. 260-976.
Gordon, Jerry D. Tumbling device including plural coating- source means. 3,469,561, 9-30-69, Cl. 118-16.
Gordon, Jerry D. Cooking oil cleaner. 3,483,981, 12-16-69, Cl. 210-167.
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Gordon, Lesley K. Combined bathing apparatus, commode, etc., for convalescent patients and the like. 3,447,166, 6-3-69, Cl. 4-1.
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Gordon, Manuel J.; and Ogle, David G., to Beckman Instruments, Inc. Electrokinetic demonstration cell construction. 3,474,024, 10-21-69, Cl. 204-299.
Gordon, Marvin, to Garrett Laboratories, Inc. Aerosol composition containing butoxymonether of a polyoxyalkylene glycol. 3,456,052, 7-15-69, Cl. 424-45.
Gordon, Mason L., to Ablestik Adhesive Company. Tube-folding arrangemet. 3,446,168, 5-27-69, Cl. 113-54.
Gordon, Mason L., to Ablestik Adhesive Company. Honing and peening arrangement. 3,484,995, 12-23-69, Cl. 51-8.
Gordon, Norman. Adjustable mirror. 3,421,728, 1-14-69, Cl. 248-477.
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Gordon, Robert G.; and Tweddell, James C., to Matthews, Jas. H., & Co. Flower vase and holder. 3,434,235, 3-25-69, Cl. 47-41.1

Gordon, Rodney W. Liquid-propellent guns and related devices. 3,422,723, 121-69, Cl. 89-8.
Gordon, Samuel J. Nonsymmetric shroud-propeller combination for directional control. 3,455,268, 7-15-69, Cl. 114-166.
Gordon, Sherritt, Mines Limited: *See*—
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Gordon, Stuart; Mowate, Arthur Jack; Morris, James Paul; and Cunliffe, Alwyn, to Imperial Metal Industries (Kynoch) Limited. Top casting under pressure of rocket motor propellants. 3,470,273, 9-30-69, Cl. 264-3.
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Gordon, Thomas J., to Transport Engineering, Inc. Wheel assembly. 3,425,760, 2-4-69, Cl. 308-207.
Gordon, Thomas J., to Transport Engineering, Inc. Wheel assembly. 3,436,134, 4-1-69, Cl. 308-190.
Gordon, Thomas T.; and Himmel, Rene K., to National Cash Register Company, The. Pressure-sensitive capsule-containing foraminated sheet material. 3,472,675, 10-14-69, Cl. 117-36.9
Gordon, Travis C.; and Gordon, Elizabeth G., executrix of the estate of said Gordon, Travis C., deceased. Ladder extensions. 3,428,147, 2-18-69, Cl. 182-204.
Gordon, William D.; and Norman, Robert S., to General Electric Company. Sheathed conductor with hermetic seal. 3,451,861, 6-24-69, Cl. 136-230.
Gordon, William D.; and Warburton, Joe A., to General Electric Company. Resistance temperature detector. 3,441,893, 4-29-69, Cl. 338-26.
Gordon, William F., to Windings, Inc. Winding flexible material. 3,486,714, 12-30-69, Cl. 242-163.
Gordon, William, to Pyronetics, Inc. Normally-closed explosive-operated valve. 3,474,809, 10-28-69, Cl. 137-70.
Gordy, John. Synthetic gemstones. 3,431,125, 3-4-69, Cl. 106-42.
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Gorgenyi, Geza E., to Hughes Aircraft Company. Method of forming metal contacts on electrical components. 3,462,349, 8-19-69, Cl. 204-15.
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Gorham, Robert H. Harvester with overlapping disc cutters. 3,455,094, 7-15-69, Cl. 56-503.
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Gorike, Rudolf, to Akustische u Kino-Gerate Gesellschaft m.b.H. Resilient mounting for tubular microphone. 3,436,495, 4-1-69, Cl. 179-146.
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Gorin, Pierre Marcel Gaston. Method of and apparatus for filling cases with fruit which can be floated. 3,470,670, 10-7-69, Cl. 53-35.
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Gorke, Klaus; and Heidel, Klaus, to Chemische Werke Huls Aktiengesellschaft. Quick-drying oil-modified alkyd resin compositions. 3,457,207, 7-22-69, Cl. 260-22.
Gorke, Klaus; Hilpert, Richard; Schleimer, Bernhard; and Dittmann, Walter, to Chemische Werke Huls Aktiengesellschaft. Coating compositions comprising cis-1,4-poly- butadiene and natural drying oil. 3,442,675, 5-6-69, Cl. 106-227.
Gorlin, Sidney. Automatic watering device for plants and the like. 3,438,383, 4-15-69, Cl. 137-78.
Gorman, Christopher B., to Ransome Torch & Burner Co. Gas burner construction. 3,437,414, 4-8-69, Cl. 431-79.
Gorman, Harry. Foldable recording. 3,469,849, 9-30-69, Cl. 274-42.
Gorman, Harry; and Fohrman, Seymour. Container with sound recording. 3,463,303, 8-26-69, Cl. 206-47.
Gorman, Jeremy W.; and Toback, Alex S., to Loctite Corporation. Polyurethane polyacrylate sealant compositions. 3,425,988, 2-4-69, Cl. 260-47.
Gorman, John Joseph, to Du Pont de Nemours, E. I., and Company. Pressure-sensitive chloroprene polymer adhesives. 3,479,311, 11-18-69, Cl. 260-29.3
Gorman, Kenneth P. Toroidal core winding head. 3,459,384, 8-5-69, Cl. 242-4.
Gorman, Marvin; Haney, Michael E., Jr.; Lively, David H.; and Davenport, James D., to Lilly, Eli, and Company. Process for pyrrolnitrin production. 3,476,648, 11-4-69, Cl. 195-96.
Gorman, Marvin; and Kornfeld, Edmund C., to Lilly, Eli, and Company. Indolyl vindolines. 3,422,112, 1-14-69, Cl. 260-287.
Gorman, Marvin; and Morin, Robert B., to Eli Lilly, and Company. 0-mycaminosyl tylonolide and a process for the preparation thereof. 3,459,853, 8-5-69, Cl. 424-121.
Gorman, Paul T.; and Small, Augustus B., to Esso Research and Engineering Company. Method of installing a sealing means in a cryogenic tanker construction. 3,457,622, 7-29-69, Cl. 29-405.
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Gormley, Joseph, to Honeywell Inc. Monitoring device. 3,439,228, 4-15-69, Cl. 317-148.5
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Gorodetsky, Igor Yakovlevich. Rectifier having sieve rim and tapered disc distributing means. 3,464,893, 9-2-69, Cl. 202-158.
Gorog, Etienne P., to International Business Machines Corporation. Frequency code concept alphabet synthesizing. 3,478,350, 11-11-69, Cl. 340-351.
Gorrafa, Adly Abdel-Moniem, to Du Pont de Nemours, E. I., and Company. Tow combing process. 3,421,185, 1-14-69, Cl. 19-65.
Gorrafa, Adly Abdel-Moniem, to Du Pont de Nemours, E. I., and Company. Tow slicing apparatus. 3,478,392, 11-18-69, Cl. 19-0.62
Gorsich, Richard D., to Ethyl Corporation. Vinylic Grignard reagent composition. 3,431,212, 3-4-69, Cl. 252-182.
Gorsich, Richard D., to Ethyl Corporation. Aryl Grignard reagent composition. 3,431,213, 3-4-69, Cl. 252-182.
Gorsich, Richard D., to Ethyl Corporation. Production of organolead compounds. 3,444,223, 5-13-69, Cl. 260-437.
Gorski, Alexander A., to United States of America, Army, mesne. Monostable wide range multivibrator. 3,428,902, 2-18-69, Cl. 328-58.
Gorski, Florian T., to Owens-Corning Fiberglas Corporation. Structural panel and method of production. 3,437,508, 4-8-69, Cl. 117-54.
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Gorton, Bert Sorelle, to Du Pont de Nemours, E. I., and Company. Polyamide-polyepoxide cross-linked reaction product adhesive composition and method of uniting metal surfaces using same. 3,462,337, 8-19-69, Cl. 156-330.

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Gorton, Howard B.; and Arias, Henry, Jr., to Ajax Hardware Manufacturing Corp. Latching hinge. 3,432,879, 3-18-69, Cl. 16-145.

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Gorzegno, Walter P.; and Zipay, Albert J., to Foster Wheeler Corporation. Vapor generator. 3,472,208, 10-14-69, Cl. 122-406.

Gosche, Volker, to Schumag Schumacher Metallwerke Gesellschaft mit beschrankter Haftung. Apparatus for statically balancing machines for driving rotary components. 3,468,189, 9-23-69, Cl. 74-573.

Goser, Karl; and Kadereit, Hans-Gunther, to Siemens Aktiengesellschaft. Associative superconductive layer storer. 3,460,102, 8-5-69, Cl. 340-173.1

Gosha, Charles E. Compressor. 3,478,956, 11-18-69, Cl. 230-185.

Goshgarian, Haig, to Radio Corporation of America. Monolithic integrated circuits with a plurality of isolation zones. 3,430,110, 2-25-69, Cl. 317-234.

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Goshima, Kazuaki; and Tokuyama, Kanji, to Shionogi & Co., Ltd. Process for preparing diacetone-L-sorbose. 3,451,993, 6-24-69, Cl. 260-210.

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Goshima, Takeshi; and Takado, Koichi, to Canon Camera Kabushiki Kaisha. Multi-flash arrangement for cameras. 3,438,315, 4-15-69, Cl. 95-11.5

Goshorn, Larry A.; and Harmon, Sherril A., to General Electric Company. Memory utilization apparatus and method. 3,430,209, 2-25-69, Cl. 340-172.5

Goshorn, Larry A.; and Harmon, Sherril A., to General Electric Company. Sub-word length arithmetic apparatus. 3,439,347, 4-15-69, Cl. 340-172.5

Goshorn, Larry A.; and Harmon , Sherril A., to General Electric Company. Circular listing. 3,473,161, 10-14-69, Cl. 340-172.5

Goshorn, Larry A.; and Harmon, Sherril A., to General Electric Company. Communications control apparatus in an information processing system. 3,487,370, 12-30-69, Cl. 340-172.5

Goshorn, Larry A.; Harmon, Sherril A.; and Erickson, Robert G., to General Electric Company. Information processing system using relative addressing. 3,470,537, 9-30-69, Cl. 340-172.5

Goslin, Geoffrey Walter, to Hawker Siddeley Dynamics Limited. Multiplex-type control apparatus. 3,469,162, 9-23-69, Cl. 318-18.

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Gosling, Rolf, to Schutte and Koerting Company. Method and apparatus for controlling a jet pump. 3,456,871, 7-22-69, Cl. 230-111.

Gosmand, Roland P., to Compagnie Francaise Thomson-Houston-Hotchkiss-Brandt. Isothermal assembly. 3,466,196, 9-9-69, Cl. 136-86.

Gosnell, Rex B., to Whittaker Corporation. Phthalimido-substituted perfluoroaromatic compounds. 3,461,135, 8-12-69, Cl. 260-326.

Goss, Arthur G.; and Bill, Arthur, to Rolls-Royce Limited. Vibration damping device. 3,473,853, 10-21-69, Cl. 308-15.

Goss, Daniel. Screen animator. 3,420,598, 1-7-69, Cl. 350-120.

Goss, Donald Davis, to Hood, H. P., & Sons, Inc. Beverage dispenser cabinet. 3,453,033, 7-1-69, Cl. 312-35.

Goss, Garnet: *See—*
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Goss, Harry F.; and De Jean, Ronald A., to Eastman Kodak Company. Recovery of palladium and/or palladium salts. 3,484,235, 12-16-69, Cl. 75-121.

Goss, James W. Mirror hanger and molding combination. 3,478,997, 11-18-69, Cl. 248-488.

Goss, Norman P.; Black, James; and Stewart, William J., to Dominion Foundries and Steel, Limited. Silicon steel process. 3,438,820, 4-15-69, Cl. 148-110.

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Gossen, John M. Combination moulding and door track for shelves. 3,419,933, 1-7-69, Cl. 16-94.

Gossen, John M., to Gossen Corporation. Wall trim assemblies. 3,473,278, 10-21-69, Cl. 52-287.

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Gossett, Bryant W., to Gossett Machine Works, Inc. Adjustable drive assemblies for textile coilers. 3,420,117, 1-7-69, Cl. 74-417.

Gossett, Bryant W., to Gossett Machine Works, Inc. Vibration damping drive assembly for textile calender rolls. 3,431,603, 3-11-69, Cl. 19-159.

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Gotberg, Roland C. Waxer. 3,457,016, 7-22-69, Cl. 401-131.

Goth, Gary J., to Case, J. I., Company. Automatic bucket positioner. 3,432,057, 3-11-69, Cl. 214-764.

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Gothberg, Karl Evald Andreas, to Aktiebolaget Svenska Kullagerfabriken. Oil mist lubricator. 3,439,777, 4-22-69, Cl. 184-55.

Gothberg, Karl Evald Andreas, to SKF Industries, Inc. Reversible sliding bearings of spiral or helical groove type. 3,439,962, 4-22-69, Cl. 308-9.

Gothel, Herbert; and Feichtinger, Hans, to Ruhrchemie Aktiengesellschaft. Synthetic lubricants on the basis of diorthosilicic acid esters. 3,444,081, 5-13-69, Cl. 252-49.6

Goto, Asahiko: *See—*
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Goto, Jyunichi. Method of making pure brew of coffee. 3,484,245, 12-16-69, Cl. 99-71.
Goto, Kanehiko, to High Polymer Chemical Industries, Ltd. Method of continuously providing a fastener on a thermoplastic film. 3,462,332, 8-19-69, Cl. 156-244.
Goto, Kenjiro, to Mansei Kogyo Kabushiki Kaisha. Electric gas lighter having a piezoelectric stack. 3,425,783, 2-4-69, Cl. 431-255.
Goto, Kenjiro, to Mansei Kogyo Kabushiki Kaisha. Liquefied gas-fueled pocket-type smoking lighter. 3,453,064, 7-1-69, Cl. 431-131.
Goto, Michio; Takahashi, Yutaro; and Otohata, Etsuo, to Teijin Limited. Polymerization of caprolactam. 3,458,482, 7-29-69, Cl. 260-78.
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Greene, John H.; Hencke, William R.; Dowden, Clarence L., Jr.; and Pitman, Herbert J., to Texaco Inc. Method and apparatus for continuous grease manufacture. 3,475,335, 10-28-69, Cl. 252-39.

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Greenwood, Robert; Harrison, Donald Britton; and Morris, Joseph Robert, to T.M.M. (Research) Limited. Textile cards. 3,473,848, 10-21-69, Cl. 302-28.
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Grotnes Machine Works, Inc.: *See*—
Garver, Oscar W.; Ullman, Frederick E.; Stettler, Christian H.; and Kopp, Hans W., 3,427,426.
Luedi, Hans R.; and Stettler, Christian H., 3,461,710.
Grotsch, Georg, 1/2 to Bergner, Richard. Pneumatic tires for vehicles with non-skid members. 3,428,105, 2-18-69, Cl. 152-210.
Grotz, Bernard J., Jr., to Braun, C. F., & Company. Hydrocarbon reforming for production of a synthesis gas from which ammonia can be prepared. 3,442,613, 5-6-69, Cl. 23-199.
Ground, Ernest R., to Continental Ore Corporation. Fluorspar-flux additive in a coking operation. 3,449,214, 6-10-69, Cl. 201-20.
Groupement Atomique Alsacienne Atlantique: *See*—
Martin, Jean Antoine; Mauguen, Pierre; and Pinault, Jacques, 3,471,194.
Grous, Philip P.: *See*—
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Grout, Edward C.: *See*—
Hiers, James E.; and Grout, Edward C.,3,426,603.
Hiers, James E.; and Grout, Edward C.,3,433,259.
Grout, John Stephen, to General Electric Company. Variable scratch filter circuit. 3,421,117, 1-7-69, Cl. 333-28.
Grout, John Stephen, to General Electric Company. Double loudness control network. 3,487,341, 12-30-69, Cl. 333-28.
Grove, Andrew S.; Leistiko, Otto; and Whittier, Ronald J., to Fairchild Camera and Instrument Corporation. Optimized double-ring semiconductor device. 3,463,977, 8-26-69, Cl. 317-235.
Grove, Clerf W.: *See*—
Miller, Harry H.; and Grove, Clerf W.,3,461,653.
Grove, Dwight L.; Grove, John L.; and Sutter, Robert W., to Grove Manufacturing Company, mesne. Vehicle with tilting bed. 3,430,792, 3-4-69, Cl. 214-505.
Grove, Gene A.: *See*—
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Grove, J. E.: *See*—
Grove, Marvin H.; and Kim, Kee W., 3,481,580.
Grove, John L.: *See*—
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Grove, John L., to Grove Manufacturing Company, mesne. Reinforcement member for telescoping boom assembly. 3,462,023, 8-19-69, Cl. 212-55.
Grove, M. H.: *See*—
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Grove Manufacturing Company: *See*—
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Felix, Paul C.; and Johnson, Allen A., 3,469,718.
Grove, Dwight L.; Grove, John L.; and Sutter, Robert W., 3,430,792.
Grove, John L., 3,462,023.
Grove, Marvin H., to M & J Valve Company. Valve equipment with hydraulic operator. 3,429,550, 2-25-69, Cl. 251-31.
Grove, Marvin H., to M & J Valve Company. Gate valve with locking pins. 3,443,788, 5-13-69, Cl. 251-112.
Grove, Marvin H., to M & J Valve Company. Gate valve. 3,455,535, 7-15-69, Cl. 251-326.
Grove, Marvin H., to M & J Valve Company. Valve operating and indicating apparatus. 3,472,276, 10-14-69, Cl. 137-552.
Grove, Marvin H.; and Kim, Kee W., to M & J Valve Company M & J Engineering Company, a partnership consisting of Grove, M. H., and Grove, J. E. Gate valve body and seat construction. 3,481,580, 12-2-69, Cl. 251-328.
Grove, Marvin H.; and Van Arsdale, Lyle R., to M & J Valve Company. Meter prover apparatus. 3,423,988, 1-28-69, Cl. 73-3.
Grove Valve and Regulator Company: *See*—
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Bryant, Austin U.; and Brumm, Richard S., 3,422,840.
Bryant, Austin U.; and Combes, Marvin G., 3,425,662.
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Combes, Marvin G.; and Ray, Harold T., 3,460,224.
Piccardo, Jack E., 3,463,448.
Ripert, Roger L., 3,463,447.
Grove, Wayne M., to Hewlett-Packard Company. Structure for reducing mismatch between symmetrical and asymmetrical transmission line and fast rise time generator utilizing same. 3,450,902, 6-17-69, Cl. 307-260.
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Boys, Thomas M. A., 3,428,201.
Grove-Jones, Leonard William George and: *See*—
Boys, Thomas M. A., 3,428,201.
Grover, Clayton D., deceased0 (by Grover, Laury Farrand, executrix). Method and apparatus for determining camera shutter speed. 3,438,240, 4-15-69, Cl. 73-5.
Grover, Elliott E., to Westinghouse Electric Corporation. Solid bearing inserts in die castings. 3,423,279, 1-21-69, Cl. 161-189.
Grover, George M.; Busse, Claus A.; and Bohdansky, Josef, to United States of America, Atomic Energy Commission, mesne. Vapor pressure gauge and calorimeter for high temperatures. 3,451,266, 6-24-69, Cl. 73-190.
Grover, George M.; Busse, Claus A.; and Caron, Rene Jean, to United States of America, Atomic Energy Commission. Thermionic converter device. 3,441,752, 4-29-69, Cl. 310-4.
Grover, Horace N.; and Sommer, John G., to General Tire & Rubber Company, The. Metal cleaning composition and method. 3,476,599, 11-4-69, Cl. 134-4.
Grover, Kenneth M.; and Ganiaris, Neophytos, to Struthers Scientific and International Corporation. Freeze drying. 3,431,655, 3-11-69, Cl. 34-5.
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Grover, Morgan. Winch lock movable partitions. 3,464,170, 9-2-69, Cl. 52-122.
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Grover Musical Products Incorporated: *See*—
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Grover, Phillip C.: *See*—
Grover, Russell C.; and Grover, Phillip C.,3,460,277.
Grover, Richard T. Split ring packing with elastomeric support for rotative and reciprocable parts. 3,420,536, 1-7-69, Cl. 277-165.
Grover, Robert R., to Kingsbury Machine Tool Corporation. Drive transmission for machine tools. 3,459,069, 8-5-69, Cl. 74-675.
Grover, Russell C.; and Grover, Phillip C. Transplanter. 3,460,277, 8-12-69, Cl. 37-2.
Grover, William H., to General Motors Corporation. Instrument illuminator. 3,451,372, 6-24-69, Cl. 116-135.
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Howe, Frank D.; Swift, Joseph P.; and Groves, Allen D.,3,442,183.
Groves, James Dennis, to British Titan Products Company Limited. Purification of pigments. 3,445,937, 5-27-69, Cl. 34-33.
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Groves, Kenneth; and Ridout, Philip Neale, to Her Majesty's Postmaster General of the General Post Office. Radio telegraph signal transmission. 3,486,117, 12-23-69, Cl. 325-30.
Groves, Robert C. Strip package. 3,482,733, 12-9-69, Cl. 221-25.
Groves, Walter Robert, to British Industrial Plastics Limited. Transfer moulding apparatus. 3,453,691, 7-8-69, Cl. 18-30.

Groves, Warren O.: *See—*
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Groves, Warren O., to Monsanto Company. Method for the preparation of inorganic single crystal and polycrystalline electronic materials. 3,429,756, 2-25-69, Cl. 156-17.
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Groves, William G.: *See—*
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Grow, Harlow B. Board game apparatus wherein advancement of pieces is controlled by movements of other pieces. 3,469,845, 9-30-69, Cl. 273-134.
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Grubaugh, Robert E.; and Elliott, Lee E., to United Aircraft Corporation. Shock recorder using eccentrically-weighted gears. 3,422,439, 1-14-69, Cl. 346-7.
Grubb, Gary L.; and Leikarts, Aldis Juris, to Streater Industries, Inc., mesne. Display rack. 3,485,381, 12-23-69, Cl. 211-148.
Grubb, Howard, Sir, Parsons Limited: *See—*
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Grubb, Norman J. Apparatus for cleaning objects. 3,467,314, 9-16-69, Cl. 239-138.
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Gruber, Arnold Harvey; Moore, Sewell Trezevant; and Light, Charles Ellsworth, deceased0 (by Light, Emma K.; executrix), to American Cyanamid Company. Continuous vinyl grafting of cellulose. 3,455,643, 7-15-69, Cl. 8-116.
Gruber, Bernard A., to Monsanto Company. Boron phosphide compositions. 3,423,218, 1-21-69, Cl. 106-55.
Gruber, Bernard A., to Monsanto Research Corporation. Tape for dry tape fuel cell. 3,438,816, 4-15-69, Cl. 136-111.
Gruber, Bernard A., to Monsanto Research Corporation. Method of operating fuel cell with a tape feed carrying the reaction components of a thermal cell. 3,444,000, 5-13-69, Cl. 136-86.
Gruber, Bernard A., to Monsanto Research Corporation. Method of generating electricity in tape type fuel cell. 3,454,429, 7-8-69, Cl. 136-86.
Gruber, Bernard A., to Monsanto Research Corporation. Tape feed for tape fuel cell and the method of operating a dry tape fuel cell. 3,454,430, 7-8-69, Cl. 136-86.
Gruber, Bernard A., to Monsanto Research Corporation. Rechargeable tape fuel cell. 3,479,227, 11-18-69, Cl. 136-86.
Gruber, Cyril H., to Brumberger Company, Inc. Electrically operated coin box device. 3,475,848, 11-4-69, Cl. 46-3.
Gruber, Floyd E.: *See—*
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Gruber, Heinz: *See—*
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Gruber, Lawrence H.: *See—*
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Stuckey, Albert D. C.; and Gruber, Paul J.,3,422,583.
Gruber, Robert: *See—*
McIlvenny, James, 3,465,556.
Gruber, Robert J. Food freezing and proportioning method and apparatus. 3,436,927, 4-8-69, Cl. 62-75.
Gruber, Thomas J., to Eaton Yale & Towne, Inc. Lubricant metering valve cross-porting arrangement. 3,438,463, 4-15-69, Cl. 184-7.
Gruber, Thomas J., to Eaton Yale & Towne Inc. Progressive lubricant feeder with cross porting. 3,467,222, 9-16-69, Cl. 184-7.
Gruber, Thomas J., to Eaton Yale & Towne, Inc. Thermal electric bearing monitoring system. 3,487,467, 12-30-69, Cl. 184-6.
Gruber, Thomas J.; and Lyth, William W., to Eaton Yale & Towne, Inc. Lubricating oil pumping station and master control center for positive displacement type metering valves. 3,477,546, 11-11-69, Cl. 184-7.
Gruber, Wilhelm, to Rohm & Haas G.m.b.H. Method of producing acrolein and methacrolein. 3,423,329, 1-21-69, Cl. 252-437.
Gruber, Wilhelm, to Rohm & Haas G.m.b.H. Preparation of acrylonitrile and methacrylonitrile. 3,426,061, 2-4-69, Cl. 260-465.3
Gruber, Wilhelm; and Quis, Peter, to Rohm & Haas G.m.b.H. Cyanoformimide thioesters. 3,462,471, 8-19-69, Cl. 260-453.
Gruber, Wilhelm; and Quis, Peter, to Rohm & Haas G.m.b.H. Polyamines comprising ethylene and imidazolinyl groups. 3,467,668, 9-16-69, Cl. 260-309.6
Grubman, Moe M. Reversible and adjustable neckwear and holders therefor. 3,439,360, 4-22-69, Cl. 2-155.
Gruca, Ned Joseph, to Illinois Tool Works Inc. Screw type fastener. 3,478,639, 11-18-69, Cl. 85-41.
Grudin, Milton R.; and Johnson, Harald R., to General Instrument Corporation. Servo system and computer. 3,448,358, 6-3-69, Cl. 318-18.
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Grudus, Gabriel M., Jr., to Interpace Corporation. Furane resins with silane coupling agents. 3,487,043, 12-30-69, Cl. 260-41.
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Gruenfeld, Norbert, to Geigy Chemical Corporation. Certain amino imidazole derivatives. 3,459,763, 8-5-69, Cl. 260-309.
Gruenstein, Rolf J., to Lockheed Aircraft Corporation. Method for making an encapsulated electrical circuit module assembly. 3,451,131, 6-24-69, Cl. 29-624.
Gruentzel, Richard A.; and Harris, Peter D., said Gruentzel assor. to American Can Company. Tear resistant article. 3,485,437, 12-23-69, Cl. 229-53.
Gruetzmacher, Ralph W.; Mc Clurg, Glenn O.; and O'Connor, Donald T., to Magnaflux Corporation. Apparatus for non-destructive testing of a dielectric material including resilient dielectric coupling means positioned between an electrode and the material under test. 3,465,242, 9-2-69, Cl. 324-54.
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Gruitroy, Willem; and Raaden, Dirk J., to American Enka Corporation. Method and apparatus for measuring the maturity of viscose. 3,443,419, 5-13-69, Cl. 73-64.1
Gruller, David L.: *See—*
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Grumbach, Marc; and Guimard, Andre, to Institut de Recherches de la Siderurgie Francaise. Tensile testing machine for metallic test pieces. 3,439,532, 4-22-69, Cl. 73-89.
Grumm, Walter. Horizontal coke oven batteries. 3,476,652, 11-4-69, Cl. 202-142.
Grumman, Eugene V. Jack arrangement for trailers. 3,431,727, 3-11-69, Cl. 60-52.
Grun, Gustav. Apparatus for treating powdered or granulated substances. 3,469,562, 9-30-69, Cl. 118-24.
Grunbaum, Juan Jose Torralva. Socket plug. 3,482,204, 12-2-69, Cl. 339-63.
Grundberg, Kenneth. Electronic control circuit for controlling the rate of fire of a machine gun. 3,451,307, 6-24-69, Cl. 89-135.
Grundel, Helga: *See—*
Heymann, Kurt; Woldt, Gunter; and Grundel, Helga,3,454,416.
Grundelius, Nils Roland; and Ahlborg, Nils Knut Gabriel, to Wikdahl, Nils Anders Lennart. Method of removing impurities from a fiber suspension. 3,486,619, 12-30-69, Cl. 209-211.
Grundfos A/S: *See—*
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Grundig E.M.V. Elektro-Mechanische Versuchsanstalt Inh. Max Grundig: *See—*
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Grundman, Richard G.; and Sharpe, Cecil H., to General Motors Corporation. Fuel spray nozzle. 3,477,647, 11-11-69, Cl. 239-468.

Grundman, Roger V., to Minnesota Mining and Manufacturing Company. Flockdcoated substrate and method of making the same. 3,436,245, 4-1-69, Cl. 117-25.
Grundmann, Ekkehard: *See—*
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Grundmann, Gustave Louis, to Radio Corporation of America. Electron beam deflection and low voltage supply circuit. 3,436,591, 4-1-69, Cl. 315-27.
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Grundschober, Friedrich; and Sambeth, Joerg, to Battelle Memorial Institute, International Division. Method of making a protective coating at the surface of a solid body. 3,477,868, 11-11-69, Cl. 117-46.
Grundy, Gary L.; and Herickhoff, Robert J., to Sperry Rand Corporation. Method of determining the intensity of a nuclear-radiation burst. 3,479,509, 11-18-69, Cl. 250-83.3
Grundy, Howard Reed: *See—*
Karlby, Henning; Grundy, Howard Reed; Speer, John R.; and Hall, George D.,3,427,484.
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Grune, Johannes: *See—*
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Gruner, Ernst Otto. Dried meat product and method of making same. 3,432,311, 3-11-69, Cl. 99-208.
Gruner, Frederick R., to Ametek, Inc. Mounting arrangement for laundry machines. 3,476,340, 11-4-69, Cl. 248-22.
Gruner, Frederick R.; and Dahlquist, Robert L., to Ametek, Inc. Ironing machine. 3,484,966, 12-23-69, Cl. 38-55.
Gruner, Frederick W., to Jordan Controls, Inc. Split phase induction motor solid state position control with braking at balance. 3,424,959, 1-28-69, Cl. 318-18.
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Gruner, Hans; and Nicolay, Heinz, to Graubremse GmbH. Control valve in pressure medium brake devices of vehicles applicable in one-conduit-, as well as two-conduit-operations. 3,439,958, 4-22-69, Cl. 303-40.
Grunert, Vincent. Dual action cleaning mop. 3,419,930, 1-7-69, Cl. 15-119.
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Grunewald, Helmut; and Steijner, Olof, to Mo och Domsjo Aktiebolag. Apparatus for continuous sulphonation and/or sulphation of organic substances. 3,438,742, 4-15-69, Cl. 23-285.
Grunewald, Helmut; and Steijner, Olof, to Mo och Domsjo Aktiebolag. Apparatus for sulphonating and/or sulphating organic compounds controlling the rate of feed of the reactant by measurement of the viscosity of the reaction mixture. 3,438,743, 4-15-69, Cl. 23-285.
Grunewald, Helmut; and Waag, Ake, to Mo Och Domsjo Aktiebolag. Detergent compositions. 3,429,822, 2-25-69, Cl. 252-99.
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Grunwald, Erich; and Kafka, Wilhelm, to Siemens Aktiengesellschaft. Direct-current machine. 3,441,755, 4-29-69, Cl. 310-10.
Grunwald, Georg; Otto, Hans-Dietrich; and Borgwaldt, Heinz-Erik Bernhard Daniel. Process of forming reconstituted tobacco foils. 3,424,170, 1-28-69, Cl. 131-140.
Grunwald, John J.; and Slominski, Leo J., to Mac Dermid Incorporated. Compositions for the method of selectively dissolving nickel from other metals. 3,460,938, 8-12-69, Cl. 75-97.
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Grupe, Edward Howard; and Hechtman, John Franklin, to Kimberly-Clark Corporation. Packing material for letterpress impression cylinders. 3,428,517, 2-18-69, Cl. 161-165.
Grushkin, Bernard, to Grace, W. R., & Co. Molding compositions of polymers from trimeric phosphonitrilic compounds. 3,454,409, 7-8-69, Cl. 106-69.
Grusin, Gerald. Divided transparent enclosure with playing disc. 3,462,149, 8-19-69, Cl. 273-113.
Gruss, George A.; Smith, Richard A.; and Infantino, Joseph R., to American Machine & Foundry Company. Process for the manufacture of bowling pins. 3,478,134, 11-11-69, Cl. 264-45.
Grussen, Jean. Plastic bottle cap with integral handle. 3,462,035, 8-19-69, Cl. 215-41.
Grussner, John J., to Weldon Tool Company, The. Countersinking and counterboring tool. 3,473,421, 10-21-69, Cl. 77-73.5
Gruszczynski, Leszek; and Adler, Henryk, to Biuro Projektow Przemyslu Hutniczego 'Biprohut'. Feed mechanism for an ingot produced by continuous coating, especially of steel. 3,448,908, 6-10-69, Cl. 226-164.
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Gruver, Jerry T.: *See—*
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Gruver, Jerry T., to Phillips Petroleum Company. Cured blend of diene block copolymer, olefin rubber and polystyrene. 3,445,543, 5-20-69, Cl. 260-876.
Gruver, Jerry T.; and Childers, Clifford W., to Phillips Petroleum Company. High impact polystyrene comprising a cross-linked blend of polystyrene, a diene rubber and a solution polymerized block copolymer. 3,476,829, 11-4-69, Cl. 260-876.
Gruver, John H., to Addressograph-Multigraph Corporation. Photographic apparatus. 3,467,524, 9-16-69, Cl. 96-116.
Gruver, John H.; and Moe, Hal K., to Addressograph-Multigraph Corporation. Device for intermittently feeling strip material. 3,465,937, 9-9-69, Cl. 226-76.
Gruy, H. J., and Associates, Incorporated: *See—*
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Gryctko, Carl E., to I-T-E Imperial Corporation, mesne. Circuit breaker mounting and removal jack screw combination. 3,474,206, 10-21-69, Cl. 200-168.
Gryctko, Carl E., to I-T-E Imperial Corporation, mesne. Circuit breaker mechanism mounting plate assembly. 3,477,044, 11-4-69, Cl. 335-23.
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Gryglas, Bogdan, to Efdyn Corporation. Adjustable hydraulic dashpot. 3,425,522, 2-4-69, Cl. 188-97.
Gryglas, Bogdan, to Efdyn Corporation. Adjustable shock absorber. 3,446,317, 5-27-69, Cl. 188-88.
Grzywacz, Marian Jan. Apparatus for technical drawing. 3,473,491, 10-21-69, Cl. 108-6.
GS Equipment Company: *See—*
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Gsching, Wilhelm, to Voith Getriebe KG. Hydrostatic radial piston pump. 3,470,825, 10-7-69, Cl. 103-161.
Gstalder, Serge,; Raynal, Jean,; and Renard, Bruno,, to Societe Nationale des Petroles d'Aquitaine. Device for breaking up the cores formed by core drills. 3,443,650, 5-13-69, Cl. 175-404.
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GTS Corporation: *See—*
Allison, Kenneth C.; and Kelver, William L., 3,433,120.
Guadalupi, Mario, to SNAM S.p.A. Process for the production of urea by synthesis of ammonia and carbon dioxide, with total recycling of the portion which has not been converted into urea. 3,470,247, 9-30-69, Cl. 260-555.
Guanella, Gustav, to Patelhold Patentverwertungs- und Elektro-Holding AG. Synchronizing system for random sequence pulse generators. 3,439,279, 4-15-69, Cl. 328-63.
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Guarino, Louis Joseph. Distillation of liquids using semi-porous and non-porous conduits in vacuum pressure container. 3,454,470, 7-8-69, Cl. 202-177.

Guarino, Nicholas A. Reel and case and storage means therefor. 3,452,879, 7-1-69, Cl. 211-71.
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Gubitose, Nicholas F.: *See—*
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Guckel, Gerhart A., to Doe, James, Engineering Co. Sterilizer for containers. 3,437,422, 4-8-69, Cl. 21-80.
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Guenter, Richard G., to Hercules Incorporated. Method and system for initiating explosive composition. 3,457,859, 7-29-69, Cl. 102-22.
Guenter, Richard G., to United States of America, Army, mesne. Apparatus for forming rocket propellant grains. 3,464,088, 9-2-69, Cl. 18-12.
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Guerrant, Gordon O., to USS Agri-Chemicals, Inc., mesne. Method and apparatus for continuous monitoring of fluoride effluent. 3,461,043, 8-12-69, Cl. 204-1.
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Guerrieri, Angelo J., to Vitro Corporation of America. Brush electrode assembly for consumable electrodes. 3,457,355, 7-22-69, Cl. 13-14.
Guerrieri, Salvatore A., to Lummus Company, The. Apparatus for the production of hydrogen. 3,450,506, 6-17-69, Cl. 23-288.
Guerrieri, Salvatore A., to Lummus Company, The. Fluidized bed reactor. 3,451,784, 6-24-69, Cl. 23-284.
Guerrieri, Salvatore, to Lummus Company, The. Gas purification process. 3,446,595, 5-27-69, Cl. 23-225.
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Guerrisi, John L. Control system safety relay. 3,436,598, 4-1-69, Cl. 317-13.
Guerth, Fritz A. Magnetic tape readout assembly employing two sets of angularly displaced heads. 3,474,433, 10-21-69, Cl. 340-174.1
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Guertler, Rudolf W., to International Harvester Company. Fuel injection nozzle. 3,430,866, 3-4-69, Cl. 239-533.
Guertler, Rudolf W., to International Harvester Company. Multiple injection fuel pump. 3,435,811, 4-1-69, Cl. 123-139.
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Guetterman, Henry M. Detachable mower blade. 3,447,291, 6-3-69, Cl. 56-295.
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Guffon, Rene M. P., to Ateliers Bariquand & Marre, Societe Anonyme. Optical anamorphic systems for justification of printed text lines. 3,450,464, 6-17-69, Cl. 350-182.
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Gugenhan, Heinrich; and Gego, Arnold. Control device for apparatus for thinning plants in a row. 3,452,822, 7-1-69, Cl. 172-6.
Guggenheim, Herbert, to General Foods Corporation. Process for reduction of coffee foam. 3,420,673, 1-7-69, Cl. 99-71.
Guggenheim, Howard J.; and Singh, Shobha, to Bell Telephone Laboratories, Incorporated. Rubidium iron fluoride magneto-optical devices. 3,485,551, 12-23-69, Cl. 350-151.
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Guggisberg, Ernst, 'Graphicart' Internationale Ausrustungsgesellschaft fur Graphische Kunst AG. Method of and apparatus for stuffing printed matter with inserts. 3,420,516, 1-7-69, Cl. 270-55.
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Guggisberg, William R.: *See—*
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Guglielmetti, Leonardo: *See—*
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Gugliemelli, Lewis A.; Weaver, Mary Ollidene; and Russell, Charles R., to United States of America, Agriculture. Salt-resistant thickeners comprising base- saponified starch-polyacrylonitrile graft copolymers. 3,425,971, 2-4-69, Cl. 260-17.4
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Gugliotti, Louis M., Jr., to United Aircraft Corporation. Operational amplifier having temperature compensation. 3,471,794, 10-7-69, Cl. 330-23.
Gugliotti, Louis M., Jr.; and Wells, John C., to United Aircraft Corporation. Operational amplifier analog logic functions. 3,471,714, 10-7-69, Cl. 307-230.
Gugolz, Henry J., to Urb Products Corporation. Glue applying apparatus. 3,450,093, 6-17-69, Cl. 118-7.
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Guichet, Lucien Robert; and Gotoghian, Georges Jacques, to Societe Nationale d'Etude et de Construction de Moteurs D'Aviation. Process for welding or brazing two members of which at least one is made of graphite. 3,442,006, 5-6-69, Cl. 29-472.7
Guichet, Niles F. Dental face bow. 3,431,649, 3-11-69, Cl. 32-20.
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Guidos, Norman R. Mail box signal flag. 3,482,543, 12-9-69, Cl. 116-132.
Guienne, Paul Francois; and Bertin, Jean Henri, to Bertin & Cie. Supply systems for ground effect machines associated to a track. 3,482,528, 12-9-69, Cl. 104-23.
Guienne, Paul Francois; and Faure, Marc Henri Jean, to Bertin & Cie. Multi-cushion system for a surface effect vehicle. 3,438,457, 4-15-69, Cl. 180-121.
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Guilbaud, Georges; and Soffer, Jacques, to Commissariat a l'Energie Atomique. Method and device for providing protection against accidental beam deviation in linear particle accelerators. 3,448,390, 6-3-69, Cl. 328-233.
Guilbault, George G.; and Kramer, David N., to United States of America, Army. Specific fluorometric detection method for cyanide. 3,432,269, 3-11-69, Cl. 23-230.
Guilbault, Lawrence J., to General Electric Company. Pulverulent coating compositions and fluidized bed coating method. 3,485,789, 12-23-69, Cl. 260-40.
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Guilbert, Nicholas R., Jr., to Guilbert, Incorporated. Container type automatic loading and discharge system for dumbwaiters. 3,447,704, 6-3-69, Cl. 214-95.
Guild, Charles E. Adjustable solenoid operated starting gates. 3,463,493, 8-26-69, Cl. 273-86.
Guild, Charles L.; and Goodman, Willard B., to American Drilling & Boring Co., Inc. Pile driver. 3,446,293, 5-27-69, Cl. 173-131.
Guild Guidance Toys Inc.: *See—*
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Guild Metal Joining Equipment Company: *See—*
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Guillemin-Tarayre, Pierre, to Societe Anonyme dite: Compagnie Oliver. Aerosol having a mink oil base. 3,424,840, 1-28-69, Cl. 424-47.

Guillermard, Pierre; Juston, Paul; and Detuncq, Yves, to Produits Chimiques Pechiney-Saint-Gobain. Process for the extraction of citraconic acid. 3,455,963, 7-15-69, Cl. 260-346.8

Guillet, James Edwin, to Eastman Kodak Company. Lnear block copolymers produced by photochemical polymerization. 3,472,918, 10-14-69, Cl. 260-878.

Guillet, James E., to Eastman Kodak Company. Anhydrides of diperoxy dicarboxylic acids. 3,476,813, 11-4-69, Cl. 260-610.

Guilliams, Charles M. Adjustable screed cradle. 3,458,964, 8-5-69, Cl. 52-365.

Guillon, Jacques S., to Massey-Ferguson Industries Limited. Wall assembling device. 3,486,287, 12-30-69, Cl. 52-495.

Guillot, Claude, to Compagnie des Ateliers et Forges de la Loire. Metal strip planing machines operating by alternate bendings. 3,429,165, 2-25-69, Cl. 72-165.

Guillot, Claude; and Peuchmaur, Alphonse, to Commissariat a l'Energie Atomique. Perforated plate and tank fitted therewith. 3,442,060, 5-6-69, Cl. 52-673.

Guillotin, Jean, to Societe de Recherches et d'Exploitation d' Inventions Guillotin. Disc mower. 3,483,685, 12-16-69, Cl. 56-25.4

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Guimento, Angelo; and Kitzmiller, Charles T., to Philco-Ford Corporation. Cryogenically cooled radiation detection apparatus. 3,445,659, 5-20-69, Cl. 250-83.

Guimond, Edward B., to Quikphone, Inc., mesne. Telephone answering apparatus. 3,466,396, 9-9-69, Cl. 179-6.

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Guin, Joel B. High speed crushers. 3,434,672, 3-25-69, Cl. 241-194.

Guin, Joel B. High speed vibration drills. 3,439,756, 4-22-69, Cl. 175-92.

Guin, Joel B. Lever operated flow control device with dashpot. 3,450,381, 6-17-69, Cl. 251-50.

Guinet, Paul Alfred Eugene: *See*—
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Guinet, Paul Alfred Eugene; and Puthet, Robert Raphael, to Rhone-Poulenc S.A.Process for the preparation of β cyanoethyltrichlorosilane employing pyrazolone catalysts. 3,448,135, 6-3-69, Cl. 260-448.2

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Guingand, Jean Raymond, to Societe Anonyme Heurtey. Bell furnaces for heat treating coiled strip metal and the like. 3,424,444, 1-28-69, Cl. 266-5.

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Gunther, Karl-Georg: *See—*
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Gustison, Robert A.; Gorczyca, Frank; and Cenerazzo, John A., to Kawecki Chemical Company. Method of beneficiating tantalum- and niobium-containing tin slags. 3,447,894, 6-3-69, Cl. 23-15.
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Gyarmathy, Kenneth W.; and Bouchal, Alexander W., to Colgate-Palmolive Company. Dentifrices. 3,431,339, 3-4-69, Cl. 424-52.
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Gyorgy, Ernst M.; Le Craw, Roy Conway; and Van Uitert, Le Grand G., to Bell Telephone Laboratories, Incorporated. Elastic wave elements. 3,428,144, 2-18-69, Cl. 181-0.5
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Haase, Donald J., to Continental Oil Company. Chromatography system. 3,422,665, 1-21-69, Cl. 73-23.1

Haase, Frederick R.; and Noguera, Julio T., to Dow Corning Corporation. Middle ear prosthesis. 3,473,170, 10-21-69, Cl. 3-1.

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Haberecht, Rolf R., to Texas Instruments, Incorporated. Plastic bodies having regions of altered chemical structure and method of making same. 3,436,468, 4-1-69, Cl. 174-68.5

Haberecht, Rolf R., to Texas Instruments, Incorporated. Integrated circuits and fabrication thereof. 3,458,368, 7-29-69, Cl. 148-175.

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Haberkorn, Joseph A. Erich, to Bolkow Gesellschaft mit beschrankter Haftung. Apparatus for positioning of the thrust engines of a vertical take-off and landing aircraft. 3,460,783, 8-12-69, Cl. 244-56.

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Habibi, Mohammad Ali, to Thompson-Hayward Chemical Company. Synthesis of aromatic nitriles by nitrilizing halogenated intermediates. 3,475,480, 10-28-69, Cl. 260-465.

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Hachtel, Wilhelm. Arrangement for forming folds in drapes, curtains and the like. 3,484,892, 12-23-69, Cl. 16-87.2

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Hackett, Leslie Charles, to Accles & Pollock Limited. Billiard cues. 3,476,388, 11-4-69, Cl. 273-68.

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Hackett, Robert J. Metal sampling device. 3,457,790, 7-29-69, Cl. 73-425.4

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Hager, Robert B., to Pennsalt Chemicals Corporation. Fluoroalkyl dicarboxylic acids and derivatives. 3,471,518, 10-7-69, Cl. 260-345.9
Hager, Robert R., to Bendix Corporation, The. Duo servomotor valve means. 3,434,285, 3-25-69, Cl. 60-54.5
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Hajikano, Kiyoshi. Die case. 3,436,953, 4-8-69, Cl. 72-467.
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Hall, Jeffrey, to Holset Engineering Company Limited. Torsional vibration damper. 3,479,907, 11-25-69, Cl. 74-574.
Hall, John H., to Union Carbide Corporation. Method of providing electrical contacts by sputtering a film of gold on a layer of sputtered molybdenum. 3,437,888, 4-8-69, Cl. 317-234.
Hall, John H., to Union Carbide Corporation. Method of forming thin film resistors by cathodic sputtering. 3,477,935, 11-11-69, Cl. 204-192.
Hall, John N.; and Kim, Charles W., to Hercules Incorporated. Synthetic textile yarn. 3,470,685, 10-7-69, Cl. 57-140.
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Hall, Kenneth F. Pole mounted fishhook holder and guard. 3,449,851, 6-17-69, Cl. 43-25.2
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Hall, Mitchell A. Coin slide latch and caliper assembly. 3,434,578, 3-25-69, Cl. 194-92.
Hall, Mitchell A. Coin slide construction. 3,434,579, 3-25-69, Cl. 194-92.

Hall, Mitchell A. Manual actuator for service machines. 3,434,580, 3-25i69, Cl. 194-9.
Hall, Mitchell A. Coin-controlled starter mechanism for cycle timers. 3,462,565, 8-19-69, Cl. 200-35.
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Hall, Ralph W. Machine for forming a trim strip. 3,485,127, 12-23-69, Cl. 83-213.
Hall, Raymond Frederick, to U.S. Philips Corporation, mesne. Cold-cathode glow-discharge tube. 3,465,194, 9-2-69, Cl. 313-209.
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Hall, Raymond L. Ski simulation apparatus. 3,455,550, 7-15-69, Cl. 272-57.
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Hall, Thomas N., to United States of America, Navy. Preparation of carbonate esters. 3,431,290, 3-4-69, Cl. 260-463.
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Hall, William B., to Crouse-Hinds Company. Lighting unit. 3,433,941, 3-18-69, Cl. 240-41.36
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Hall, William G., to Bell Telephone Laboratories, Incorporated. Telephone conference circuit. 3,420,959, 1-7-69, Cl. 179-18.
Hall, William H., to Hall Textiles(Mansfield) Limited. Apparatus for use in examining and turning garments. 3,441,181, 4-29-69, Cl. 223-43.
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Hallaman, Allan D., to Goodrich, B. F., Company, The. Traction device. 3,464,743, 9-2-69, Cl. 305-35.
Hallauer, William J.; and Potts, Bill L., to Ford Motor Company. Method for manufacturing an electrode. 3,431,614, 3-11-69, Cl. 29-25.12
Hallauer, William J.; and Romine, Donald J., to Ford Motor Company. Spark plug having a short tip center electrode. 3,452,235, 6-24-69, Cl. 313-136.
Hallay, Alexander R., to General Electric Company. Impulse starting and operating circuit for gas discharge lamps. 3,476,977, 11-4-69, Cl. 315-183.
Hallberg, John E., to Mac Bee Engineering Corporation. Solenoid valve assembly. 3,420,496, 1-7-69, Cl. 251-141.
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Halleck, Frank E., to Pillsbury Company, The. Paint composition containing polysaccharides. 3,447,940, 6-3-69, Cl. 106-162.
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Hallene, Alan M.; Holuba, Henry J.; and Drexler, John J., to Montgomery Elevator Company. Elevator door control. 3,450,232, 6-17-69, Cl. 187-61.
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Harrison, Homer S., to American Chain & Cable Company, Inc., mesne. Garment conveyor. 3,454,148, 7-8-69, Cl. 198-28.
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Harrison, Ian R.; Smith, Harry A.; and Handlovits, Carl E., to Dow Chemical Company, The. Method or crosslinking polyphenylene sulfide polymers and preparing laminar structures. 3,451,873, 6-24-69, Cl. 156-325.
Harrison, James Arthur; and Quartermain, Brian, to Davy and United Engineering Company Limited. Apparatus for monitoring the position of an object displaceable along a predetermined path. 3,445,640, 5-20-69, Cl. 235-151.32
Harrison, James B.; Mageli, Orville L.; and Lowell, Arthur I., to Wallace & Tiernan Inc. Vinyl chloride polymerization. 3,420,807, 1-7-69, Cl. 260-92.8
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Harrison Jet Guns, Inc.: *See—*
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Harrison, John W., to Grace, W. R., & Co. Package and method of making same. 3,479,789, 11-25-69, Cl. 53-34.
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Harrison, Lee, III. Means and method for generating shadows and shading for an electronically generated display. 3,441,789, 4-29-69, Cl. 315-18.
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Harrison, Robert W. Sucker rod. 3,486,557, 12-30-69, Cl. 166-68.
Harrison, Stanley R.; and Broughton, Robert M., to Dunlop Rubber Company Limited. Golf balls having covers of ethylene-unsaturated monocarboxylic acid copolymer compositions. 3,454,280, 7-8-69, Cl. 273-235.
Harrison, Stuart A.; and Wicklatz, John E., to General Mills, Inc. Cyanoethylated cyclohexane-bis-alkyl amines. 3,478,081, 11-11-69, Cl. 260-464.
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Harrison, Wayne E.; and Jatras, Stephen J., to Midwestern Instruments, Inc., a division of Telex Inc. Apparatus for recording the time-variation of an electrical signal utilizing a pulsed laser. 3,482,254, 12-2-69, Cl. 346-76.
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Hart, Henry H., to Union Carbide Corporation. Process and apparatus for shaping a shoe upper and bonding a shoe upper to an insole. 3,422,475, 1-21-69, Cl. 12-145.
Hart, Herbert J.; and Ellis, John N., to Schlumberger Technology Corporation. Methods and apparatus for bridging a well conduit. 3,460,625, 8-12-69, Cl. 166-285.
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Hartmann, Ludwig A., to Atlas Chemical Industries, Inc. Separation of hexitans. 3,484,459, 12-16-69, Cl. 260-347.8

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Hellborg, Lars Ingvar, to Sobrefina S.A., mesne. Method of uniting a plurality of first objects with a corresponding number of second objects. 3,479,726, 11-25-69, Cl. 29-429.
Helle, Bernd-Heinz, to Baar, Heinz-Joachim. Double-ended socket coupling for stoneware pipes. 3,465,529, 9-9-69, Cl. 61-11.
Helle, Robert J. Rearview mirror with adjustment guides. 3,439,646, 4-22-69, Cl. 116-124.
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Hellman, Erik, to Allmanna Svenska Elektriska Aktiebolaget. Control rods for nuclear reactors. 3,448,008, 6-3-69, Cl. 176-86.
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Helton, Eugene L., to Caterpillar Tractor Company. Lock mechanism for telescopic members. 3,463,521, 8-26-69, Cl. 287-100.
Heltzel, Carl J. Concrete reinforcing steel handling and placing device. 3,443,495, 5-13-69, Cl. 94-39.
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Hembree, Oscar O., to Hocker, Talmage. Liquid level control. 3,421,538, 1-14-69, Cl. 137-394.
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Hemminger, Charles E., to Esso Research and Engineering Company. Fluidized retorting of oil shale. 3,484,364, 12-16-69, Cl. 208-11.

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Hendershot, Robert V., to Candy Mfg. Co., Inc. Phase time variator. 3,465,269, 9-2-69, Cl. 335-69.

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Henderson, Bennett M.; Ratner, Hyman; and Wittner, Eugene, to Shell Oil Company. Lubicant containing mixture of low and high molecular weight sulfonates. 3,480,550, 11-25-69, Cl. 252-33.

Henderson, Billie D., to Beckman Instruments, Inc. Point illumination and scanning mechanism for microscopes. 3,460,880, 8-12-69, Cl. 350-6.

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Henderson, Courtland M.; Beaver, Emil R., Jr.; and Reitsma, Louis J., Jr., to Monsanto Research Corporation. Lead-telluride with cesium chloride and segmented thermoelectric elements. 3,467,555, 9-16-69, Cl. 136-205.

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Henderson, Leonard L. Bridge for measuring moisture content having field effect transistor in one arm with gate electrode resistively connected through test liquid. 3,479,590, 11-18-69, Cl. 324-65.

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Henderson, Martin C., to Bunker-Ramo Corporation, The. Display apparatus. 3,483,547, 12-9-69, Cl. 340-324.

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Hines, John, to New England Lock and Hardware Co., The. Thumb knob attachment for mortise-type lock. 3,435,644, 4-1-69, Cl. 70-129.
Hines, Marion E., to Microwave Associates, Inc. Digital electric wave phase shifters. 3,423,699, 1-21-69, Cl. 333-31.
Hines, Marion E.; and Helszajn, Joseph, to Microwave Associates, Inc. Ferrite junction circulators having biasing connector wire at ferrite center. 3,457,525, 7-22-69, Cl. 333-1.1
Hines, Paul J. Flexible resistance element film. 3,457,537, 7-22-69, Cl. 338-162.
Hines, Vernon C. Safety harness for flexible hose and the like. 3,431,947, 3-11-69, Cl. 138-106.
Hines, Walter; Bixby, William E.; and Quateman, Joseph I., to Bell & Howell Company. Method and article of creating opaque surface on transparent films. 3,424,640, 1-28-69, Cl. 161-6.
Hines, Walter: *See—*
Smitzer, Louis A.; Tyler, Len A.; Hines, Walter; and Bixby, William E.,3,442,585.
Hing, Francisco S.: *See—*
Billerbeck, Fred W.; Hing, Francisco S.; and Purvis, George A.,3,429,711.
Hinger, William R., to Wehr Corporation. Latch assembly for material handling magnet. 3,477,050, 11-4-69, Cl. 335-285.
Hini, Paul, to Siemens Aktiengesellschaft. Revolution counter. 3,456,097, 7-15-69, Cl. 235-92.
Hini, Paul, to Siemens Aktiengesellschaft. Noncontact electrical coupling semiconductor device. 3,471,722, 10-7-69, Cl. 310-10.
Hiniker, Kenneth S. Flexible extension for chemical band spreader. 3,474,746, 10-28-69, Cl. 111-85.
Hinkebein, John A., to Monsanto Company0000000000. Process for recovering phosphorus from sludge. 3,436,184, 4-1-69, Cl. 23-223.
Hinkebein, John A., to Monsanto Company. Phosphorus production. 3,442,621, 5-6-69, Cl. 23-223.
Hinkein, Donald J.: *See—*
Bradley, Mark E.; and Hinkein, Donald J.,3,427,494.
Hinkein, Donald J.; and Liu, Der Sheng, to International Business Machines corporation. Graphic deflection system employing variably damped deflection winding. 3,431,457, 3-4-69, Cl. 315-18.
Hinkel, Russel G., Sr.: *See—*
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Hinkeldey, Arno, to Siemens Aktiengesellschaft. Indirectly heated dispenser cathode for electronic discharge devices. 3,441,780, 4-29-69, Cl. 313-346.
Hinkle, Charles E.: *See—*
Hinkle, John T.; and Hinkle, Charles E.,3,464,244.
Hinkle, Donald L. Safety coupling or connector. 3,462,179, 8-19-69, Cl. 287-100.
Hinkle, Donald L., to Berry, William B. Transporter and anchor for well casing interliner or boot. 3,463,229, 8-26-69, Cl. 166-207.
Hinkle, John T.; and Hinkle, Charles E. Automobile key case. 3,464,244, 9-2-69, Cl. 70-456.
Hinkle, Lloyd A. Structural assembly. 3,456,921, 7-22-69, Cl. 256-22..
Hinkley, Everett D.: *See—*
Rediker, Robert H.; Hinkley, Everett D.; and Jadus, Dale K.,3,486,949.
Hinkson, Arthur William. Remote control toy. 3,481,071, 12-2-69, Cl. 46-240.
Hinkson, Clair L. Swivel hanger for fishing lure. 3,426,468, 2-11-69, Cl. 43-42.74
Hinkson, Robert E.: *See—*
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Hinlein, Sigmund, to Honeywell Inc. Method of fabricating magnetic transducers. 3,479,737, 11-25-69, Cl. 29-603.
Hinman, Clinton R.: *See—*
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Hinman, Richard L.: *See—*
Hedaya, Eddie; Theodoropulos, Spyros; and Hinman, Richard L.,3,472,817.
Hinn, John S.: *See—*
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Hino, Masamichi, to Kubota Iron and Machinery Works, Ltd. Weighing apparatus. 3,421,594, 1-14-69, Cl. 177-223.
Hino, Masamichi, to Kubota Tekko Kabushiki Kaisha, a/k/a Kubota, Ltd. Weighing machine. 3,472,330, 10-14-69, Cl. 177-214.
Hino, Takashi: *See—*
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Niedetzky, Johann; and Hinrichs, Helmut,3,440,021.
Hinrichs, Horst; and Mensing, Walter, to Westinghouse Bremsen- und Apparatebau, G.m.b.H. Fluid pressure braking apparatus combined with spring-applied braking apparatus. 3,443,839, 5-13-69, Cl. 303-2.
Hinrichs, John F., to Smith, A. O., Corporation. Rapid load system for electron beam welder. 3,430,029, 2-25-69, Cl. 219-121.
Hinrichs, Karl; and Diederich, Perry A., to Beckman Instruments, Inc. Detector for pulse code modulated signals with feedback for baseline correction. 3,421,093, 1-7-69, Cl. 329-104.
Hinrichsen, Hans V., to Fulton Company, The. Adjustable load support. 3,474,997, 10-28-69, Cl. 248-354.
Hinschlager, Rudolf F.: *See—*
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Hinssen, Andreas Petrus Paulus; and Smeelen, Theodorus Johannes Henricus, to U.S. Philips Corporation, mesne. Incandescent lamp having a filament surrounded by a wire screen. 3,457,449, 7-22-69, Cl. 313-315.
Hinterholzer, Hans. Brake attachment for ski. 3,433,494, 3-18-69, Cl. 280-11.13
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Hinton, George F., to United States of America, Navy. Line integral magnetometer for measuring current flow through an electrolyte. 3,435,338, 3-25-69, Cl. 324-43.
Hinton, George F., to United States of America, Navy. Spinning line integral magnetometer for measuring a current or an electric field. 3,436,650, 4-1-69, Cl. 324-43.
Hinton, John L.: *See—*
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Hinton, Robert A., to Phillips Petroleum Company. Polymer recovery apparatus. 3,450,183, 6-17-69, Cl. 159-25.

Hinton, Robert A., to Phillips Petroleum Company. Process control in production of copolymers. 3,452,119, 6-24-69, Cl. 260-880.
Hinton, Robert A., to Phillips Petroleum Company. Olefin polymerization and recovery. 3,457,249, 7-22-69, Cl. 260-93.7
Hinton, Robert A.; and Norwood, Donald D., to Phillips Petroleum Company. Process for the polymerization of conjugated dienes. 3,461,109, 8-12-69, Cl. 260-83.7
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Hintz, Harald; and Deleroi, Werner. Static inverter comprising a resonant circuit for generating a constant output voltage and frequency. 3,454,863, 7-8-69, Cl. 321-44.
Hintze, Norman. Polisher for high voltage electric lines. 3,430,279, 3-4-69, Cl. 15-23.
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Hintze, Woldemar, to Dynamit Nobel Aktiengesellschaft. Black powder charge. 3,424,087, 1-28-69, Cl. 102-39.
Hinxlage, Aloys, to Holstein & Kappert Maschinenfabrik 'Phonix' GmbH. Filling device for bottles or the like. 3,455,350, 7-15-69, Cl. 141-367.
Hinz, Martin W. Tree holding apparatus. 3,437,296, 4-8-69, Cl. 248-38.
Hinz, Walter W.; and Marandi, Ali, to Clemar Manufacturing Corporation. Combination shut-off, anti-backflow and vacuum relief valve. 3,454,032, 7-8-69, Cl. 137-218.
Hinzmann, Alfred, to Hauni-Werke, Korber & Co., KG. Apparatus for making holes in tobacco rods or the like. 3,483,873, 12-16-69, Cl. 131-23.
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Hipp, Richard D., Jr., to Minnesota Mining and Manufacturing Company. Two piece mold for molding an undercut rim, and method of molding. 3,431,967, 3-11-69, Cl. 164-6.
Hippen, Ralph W. Fluid metering apparatus. 3,459,041, 8-5-69, Cl. 73-239.
Hippert, Pierre Raoul, 1/2 to Societe Anonyme: Les Ateliers Reunis Broyeurs Forplex. Dynamical selector device for crushers. 3,423,034, 1-21-69, Cl. 241-51.
Hippisley, George W., Jr., to Honeywell Inc. High-speed dual-rank flip-flop. 3,454,935, 7-8-69, Cl. 340-172.5
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Hirahara, Katsuji, to FMC Corporation. Removing scabs from fruit. 3,446,259, 5-27-69, Cl. 146-231.
Hirahara, Katsuji, to FMC Corporation. Fruit peeling method. 3,467,156, 9-16-69, Cl. 146-226.
Hirahara, Katsuji, to FMC Corporation. Method of processing cereal grain. 3,471,298, 10-7-69, Cl. 99-2.
Hirai, Koji: *See—*
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Hirai, Toshio; Moori, Takehiro; and Masago, Hiroshi, to Osaka Shosen Mitsui Senpaku Kabushiki Kaisha (Mitsui O.S.K. Lines Ltd.). Apparatus for transporting refrigerating containers and cooled containers used therefor. 3,440,834, 4-29-69, Cl. 62-409.
Hiraiwa, Masumi; Takahasi, Tadasi; and Fukuda, Wataru, to Sumitomo Chemical Company, Ltd. Process for the purification of amino acids. 3,459,650, 8-5-69, Cl. 204-180.
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Hirano, Hiroshi; Masuda, Katsutada; Kawai, Kiyohisa; and Shimahara, Noboru, to Takeda Chemical Industries, Ltd. 2,4- and 2,6-dihalobenzyl methyl sulfoxides and sulfones. 3,465,044, 9-2-69, Cl. 260-607.
Hirano, Hiroshi; Masuda, Katsutada; Numata, Mitsuo; and Oka, Yoshikazu, to Takeda Chemical Industries, Ltd. Dialkyl-sulfoxides and dialkyl-sulfones. 3,455,956, 7-15-69, Cl. 260-345.1
Hirano, Hiroshi: *See—*
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Hirata, Shinichi, to Kabushiki Kaisha Ricoh. Tab programming control system by means of codes. 3,429,415, 2-25-69, Cl. 197-179.
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Hirata, Toshio; Arai, Tashiro; and Yamaguchi, Kazuhide, to Tokyo Koku Keiki Kabushiki Kaisha. Apparatus for examining conditions of filaments and yarns running at high speed. 3,485,095, 12-23-69, Cl. 73-160.
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Hirayama, Chikara; and Maniero, Daniel A., to Westinghouse Electric Corporation. Process for hydrogen cyanide and acetylene production in an arc heater having a rotating arc. 3,460,902, 8-12-69, Cl. 23-79.
Hirmann, Georg, to Polyprodukte AG. Friction gear. 3,424,012, 1-28-69, Cl. 74-25.
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Hirokawa, Yoichi, to Kabushikikaisha Tokyo Keiki Seizosho (Tokyo Keiki Seizosho Co., Ltd.). Power source device for driving step motor of gyro. 3,437,899, 4-8-69, Cl. 318-138.
Hirons, John L. Inspection window for a sand blasting enclosure. 3,470,654, 10-7-69, Cl. 51-8.
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Hirose, Yoshiyuki; and Hanaoka, Susumu, to Kabushiki Kaisha Daini Seikosha. Oil retainer for rotary shaft. 3,435,611, 4-1-69, Cl. 58-140.
Hirota, Hozumi, to Matsushita Electric Industrial Co., Ltd. Magnetic permeability material. 3,433,630, 3-18-69, Cl. 75-170.
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Hirs, Gene. Method of filtering. 3,450,262, 6-17-69, Cl. 210-80.

Hirs, Gene. Method and apparatus for filtering with overlapped filter medium. 3,478,879, 11-18-69, Cl. 210-77.
Hirs, Gene. Resilient tubular valve. 3,479,002, 11-18-69, Cl. 251-5.
Hirs, Gene, to Hydromation Engineering Company. Filtration of organic materials. 3,486,621, 12-30-69, Cl. 210-68.
Hirs, Gene; MacKenzie, Kenneth W.; and Stein, Alfred H., to Hydromation Engineering Company. Electrostatic liquid filter. 3,468,778, 9-23-69, Cl. 204-180.
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Hirs, Gilles Gerardus, to Nederlandse Centrale Organisatie voor Toegepast- Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid. Bearing for radial and axial loads. 3,420,583, 1-7-69, Cl. 308-9.
Hirsbrunner, Hans G., to Texas Instruments, Incorporated. Electrothermal logic apparatus. 3,461,272, 8-12-69, Cl. 219-505.
Hirsch, Abraham Adler. Inflow equalizer for wells and elongated sieves. 3,450,207, 6-17-69, Cl. 166-233.
Hirsch, Abraham Adler. Combination sample-culture bottle for bacteriological tests. 3,474,003, 10-21-69, Cl. 195-127.
Hirsch, Charles J., to RCA Corporation. Converter for VHF-omnirange (VOR) receiver. 3,478,360, 11-11-69, Cl. 343-106.
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Hirsch, George. Time-internal switching device. 3,422,233, 1-14-69, Cl. 200-38.
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Bushell, Charles H. G.; and Hirsch, Horst E.,3,482,688.
Hirsch, James A., to Mallory, P. R., & Co. Inc. System using shift register, ring counter and logic circuitry for controlling operation in predetermined sequence. 3,450,995, 6-17-69, Cl. 328-72.
Hirsch, James A.; and Shelton, Robert F., to Mallory, P. R., & Co., Inc. Motor control system for a timer. 3,443,180, 5-6-69, Cl. 318-102.
Hirsch, James Arthur, to Mallory, P. R., & Co., Inc. Percentage on-off timing circuit. 3,486,044, 12-23-69, Cl. 307-293.
Hirsch, James Arthur; and Smith, Robert D., to Mallory, P. R., & Co., Inc. Electronic timing circuit. 3,461,322, 8-12-69, Cl. 307-293.
Hirsch, Le Roy D., to Westinghouse Electric Corporation. Logic circuit. 3,452,216, 6-24-69, Cl. 307-215.
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Hirsch, Lothar; Hornig, Lothar; Mau, Gunther; and Quadflieg, Therese, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of acetaldehyde. 3,439,044, 4-15-69, Cl. 260-604.
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Hirsch, Nathan A., to Albest Metal Stamping Corporation. Fastener for handbag strap. 3,466,711, 9-16-69, Cl. 24-95.
Hirsch, Paul I. Locking device. 3,461,512, 8-19-69, Cl. 24-126.
Hirsch, Paul; and Kerschgens, Johann, to Kerschgens, Johann. Electro plating device. 3,466,239, 9-9-69, Cl. 204-224.
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Hirsch, Robert L.; and Meeks, Gene A., to International Telephone and Telegraph Corporation. Ion gun improvements for operation in the micron pressure range and utilizing a diffuse discharge. 3,448,315, 6-3-69, Cl. 313-63.
Hirsch, Roger. Ticket vending apparatus. 3,464,302, 9-2-69, Cl. 83-203.
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Hirschberg, Kenneth A.; and Boren, John E., to United States of America, Army, mesne. Airborne acoustic ground fire detector. 3,445,807, 5-20-69, Cl. 340-15.
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Hirschler, Elvin F. Safety bottle cap. 3,426,930, 2-11-69, Cl. 215-9.
Hirschmann, Ralph F.; and Mrozik, Helmut, to Merck & Co., Inc. 2-Oximino-3-keto steroids of androstane series. 3,462,464, 8-19-69, Cl. 260-397.4
Hirschmann, Ralph F.; and Patchett, Arthur A., to Merck & Co., Inc.11-Desoxy-16α, 17α-dihydroxy-20-oxo-4-pregneno- and 4,6-pregnadieno-pyrazoles and 16α, 17α- acetals and ketals thereof. 3,475,418, 10-28-69, Cl. 260-239.5
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Hobbs, William E., to Great Lakes Chemical Corporation. Stabilized 2,4-dibromophenol and its production. 3,454,654, 7-8-69, Cl. 260-623.

Hobday, Stephen W. Apparatus for graphical analysis. 3,460,257, 8-12-69, Cl. 33-1.

Hobe, Harold E., to United States Steel Corporation. Scrap charging machine. 3,443,701, 5-13-69, Cl. 214-18.

Hobel, Daniel: *See—*
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Hoberg, George Gilbert: *See—*
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Hobrough, Gilbert L., to Itek Corporation. Scanning raster generator. 3,429,990, 2-25-69, Cl. 178-6.8

Hobrough, Gilbert L., to Itek Corporation. Photographic image registration. 3,432,674, 3-11-69, Cl. 250-220.

Hobrough, Gilbert L., to Itek Corporation. Automatic focusing system for a flying spot scanner. 3,450,833, 6-17-69, Cl. 178-7.2

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Hobson, Charles F., Jr., to General Electric Company. Parallel assisted circuit interrupting device. 3,436,700, 4-1-69, Cl. 335-201.

Hobson, Charles M., Jr., to Garlock Inc. Plastic resin lined butterfly valve with improved sealing arrangements. 3,447,780, 6-3-69, Cl. 251-306.

Hobson, David; and Hattersley, Derek, to Davy and United Engineering Company Limited. Plate side trimming shear. 3,469,483, 9-30-69, Cl. 83-216.

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Mills, John Penrose, 3,479,773.
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Hobson, James W., to Oakland Community College. Science furniture. 3,451,738, 6-24-69, Cl. 312-209.

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Hobson, Philip H. Adjustable weight sinker for fishing lines. 3,461,597, 8-19-69, Cl. 43-43.14

Hobson, Robert H. Case cutter. 3,430,339, 3-4-69, Cl. 30-2.

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Hoch, Glenn M. Self-heating container. 3,430,623, 3-4-69, Cl. 126-262.

Hoch, Manfried L.; Zitko, Ronald F.; and Wilkins, James D., to International Harvester Company. Knife grinder. 3,427,753, 2-18-69, Cl. 51-94.

Hoch, Norman F., to Beloit Corporation. Pulper. 3,455,516, 7-15-69, Cl. 241-46.17

Hoch, Paul E.; and Stratton, George B., to Hooker Chemical Corporation. Polymer recovery process. 3,442,884, 5-6-69, Cl. 260-94.7

Hoch, Samuel, to Tenneco Chemicals, Inc. Stabilized stannous carboxylates. 3,426,051, 2-4-69, Cl. 260-429.7

Hochberg, David Louis, to Pitney-Bowes, Inc. Protected stencil aperture card. 3,421,241, 1-14-69, Cl. 40-158.

Hochberg, David Louis, to Pitney-Bowes, Inc. Thermographic reproduction process using-stencil laminate material with a layer of pressure spreadable and infrared reflective material. 3,454,765, 7-8-69, Cl. 250-65.

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Hochberg, Jerome, du Pont de Nemours, E. I., and Company. Process for making synthetic suede sheet material. 3,429,727, 2-25-69, Cl. 117-11.

Hochfeld, Henry J., to American Fiber-Velope Mfg., Co. Apparatus for bending accordion pleated strips. 3,434,400, 3-25-69, Cl. 93-84.

Hochgesand, Gerhard L., to Metallgesellschaft Aktiengesellschaft, and Linde Aktiengesellschaft. Absorption of CO_2 employing separately cooled absorbent streams. 3,453,835, 7-8-69, Cl. 62-17.

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Hochgraf, Lester; and Rice, Stephen O., to Bell Telephone Laboratories, Incorporated. Carrier system slope regulator. 3,423,535, 1-21-69, Cl. 179-15.

Hochhauser, Irving. Process and apparatus for curing material by induction heating. 3,479,419, 11-18-69, Cl. 264-25.

Hochman, Jack M.; and Loboda, Wesley J., to Esso Research and Engineering Company. Fluid flow distributor. 3,479,146, 11-18-69, Cl. 23-288.

Hochmuth, Frank W.; and Freiday, Jay H., to Combustion Engineering, Inc. Semirigid tube supporting tie. 3,434,531, 3-25-69, Cl. 165-67.

Hochner, Walter L., to Kaumagraph Company. Decorated thermosetting plastic article and method of producing same. 3,421,967, 1-14-69, Cl. 161-5.

Hochrath, Hans, to Siemens Aktiengesellschaft. Circuit arrangement for the regulation of dynamics of electrical signals. 3,439,280, 4-15-69, Cl. 328-142.

Hochreuter, Richard; and Keller, Robert Christian, to Sandoz Ltd. Melamine derivatives and process for their production. 3,466,278, 9-9-69, Cl. 260-249.6

Hochstein, Alexander E., to Strong Electric Corporation, The. Power circuit for gas filled arc lamp. 3,448,336, 6-3-69, Cl. 315-176.

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Hochstrasser, Robert, deceased; Hochstrasser, Elisabeth; and Hochstrasser, Jurgen, administrators. Broaching tool for bore holes partly filled with water. 3,430,717, 3-4-69, Cl. 175-263.

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Vaessen, Franz, 3,468,514.

Hock, Fromund, to Leitz, Ernst, G.m.b.H. Incremental transducer comprising grating transversed by light ray a plurality of times. 3,421,011, 1-7-69, Cl. 250-231.

Hock, Fromund, to Leitz, Ernst, g.m.b.H. Method and apparatus for determining the positions of indicia utilizing an oscillating light beam and detecting an odd harmonic in the output. 3,454,776, 7-8-69, Cl. 250-232.

Hock, Fromund, to Leitz, Ernst, GmbH. Photoelectric position sensing device comprising light diffracting phase gratings using polarizer beam splitters for sensing the time phase position of the gratings. 3,482,107, 12-2-69, Cl. 250-237.

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Hocq, Robert R., to Societe Franco-Hispano-Americaine Francispam. Gas-fuel lighters. 3,484,825, 12-16-69, Cl. 239-587.

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Hodder, Harold F. Arc welder. 3,471,678, 10-7-69, Cl. 219-130.

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Hoddinott, William M., to Textron Inc. Air cooling system for heat generating power transmission and motor unit. 3,467,177, 9-16-69, Cl. 165-47.

Hodes, William, to American Standard Inc. Polyurethane-polysiloxane graft copolymers. 3,463,662, 8-26-69, Cl. 117-118.

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Hodgdon, Russell B., Jr.; Enos, John F.; and Aiken, Edwin J., to General Electric Company. Process of sulfonating poly-alpha, beta, beta- trifluorostyrene. 3,442,825, 5-6-69, Cl. 260-2.2

Hodge, Bernard R. Display device for pretied necktie. 3,456,853, 7-22-69, Cl. 223-87.

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Hodge, Frederick J., to Minnesota Mining and Manufacturing Company. Audio and video recording with phase modulated audio pulse on horizontal back porch. 3,446,914, 5-27-69, Cl. 178-6.6

Hodge, Frederick J.; and Barclay, Ralph R., to Minnesota Mining and Manufacturing Company. Dropout compensator with delayed response. 3,461,230, 8-12-69, Cl. 178-6.6

Hodge, Frederick J.; and Barclay, Ralph R., to Minnesota Mining and Manufacturing Company. Dropout compensator for NTSC color television. 3,463,874, 8-26-69, Cl. 178-5.2

Hodge, Keith L. Auxiliary lock for sliding members. 3,478,471, 11-18-69, Cl. 49-449.

Hodge, Philip Allan, to Anson, Inc. Clasp combined with detachably mounted ornament. 3,421,341, 1-14-69, Cl. 63-4.

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Hodge, William R. Golf putter with head aligning means. 3,486,755, 12-30-69, Cl. 273-164.

Hodgen, Loran M., to Excel Corporation. Method for bedding panels into frames. 3,430,333, 3-4-69, Cl. 29-472.9

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Hodgkinson, William Lloyd, to United Kingdom Atomic Energy Authority. Apparatus for examining the internal structure of a body. 3,432,661, 3-11-69, Cl. 250-83.3

Hodgkiss, John A.; Komor, Joseph A.; and Schenck, Leslie M., to GAF Corporation. Low-foaming surfactant compositions. 3,437,697, 4-8-69, Cl. 260-615.

Hodgson, Donald W. Fifth wheel construction. 3,463,512, 8-26-69, Cl. 280-432.

Hodgson, George T., Jr.; and Raphael, Thomas, to Champion Products Inc., mesne. Plastisol inks for fabrics. 3,471,428, 10-7-69, Cl. 260-23.

Hodgson, James E., 1/2 to Schoepe, Adolf. Fuel cell including fire-glazed ceramic walls and ceramic electrolyte impregnated partition. 3,485,676, 12-23-69, Cl. 136-86.

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Hodgson, R. W.; and Cairns, William. Photographic apparatus on a camera for producing transfer prints. 3,424,072, 1-28-69, Cl. 95-13.

Hodgson, Richard W.; Kennedy, Clifford F.; and Poarch, Charles T., to North American Rockwell Corporation. Electrical apparatus for changing the effective capacitance of a cable. 3,484,679, 12-16-69, Cl. 323-105.

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Hodgson, Robert F.; Petro, John D.; and Turko, John D., to Commercial Shearing & Stamping Company. Hydraulic valves. 3,481,364, 12-2-69, Cl. 137-596.

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Hodgson, Robert W.; and Freson, James L. , deceased0 (by Freson, Mae; surviving heir). Safe trailing distance maintenance system for a trailing carrier vehicle. 3,442,347, 5-6-69, Cl. 180-98.

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Holden, Kenneth G., to Smith Kline & French Laboratories. 6,6-Ethylene-1,2-methylenesteroids. 3,470,156, 9-30-69, Cl. 260-239.55
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Hollendieck, Hans; Meier, Hans Justus; and Rutzen, Erich Adolf Wilhelm, to Vereinigte Flugtechnische Werke G.m.b.H. VTOL aircraft. 3,462,099, 8-19-69, Cl. 244-55.
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Holm, Allan P.; and Raggio, Louis J., to North American Rockwell Corporation. Blood oxygenation apparatus. 3,480,401, 11-25-69, Cl. 23-258.5
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Holm, Bengt Lennart, to Kockums Mekaniska Verkstads Aktiebolag. Sound transmitter for gaseous operating fluid. 3,429,294, 2-25-69, Cl. 116-142.
Holm, Carl E. Harvesting device for celery and the like plants. 3,460,326, 8-12-69, Cl. 56-119.
Holm, Christian, to Daimler-Benz Aktiengesellschaft. Amphibious commercial-type motor vehicle. 3,428,016, 2-18-69, Cl. 115-1.
Holm, Kurt Anders; and Hansson, Rune Einar, to Uddeholms Aktiebolag. Apparatus for the degreasing of articles by means of a solvent. 3,479,252, 11-18-69, Cl. 202-170.
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Holm, Roy T., to Shell Oil Company. Prepolymers of unsaturated heterocyclic compounds and alpha-alkyl styrenes and process for preparing same. 3,440,233, 4-22-69, Cl. 260-88.1
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Holman, Erwin W.; and Unrue, John E., Jr., to Bell Telephone Laboratories, Incorporated. Echo suppressor having means for eliminating the operationally induced noise fluctuations. 3,471,657, 10-7-69, Cl. 179-170.6
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Hoyt, John M.; and Koch, Karl, to National Distillers and Chemical Corporation. Process for polymerizing 2-methylene glutaronitrile. 3,451,977, 6-24-69, Cl. 260-78.4
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Hube, Arthur B., to American District Telegraph Company. Method and apparatus for detecting waterflow including a non-instantaneously recycling retard element. 3,448,442, 6-3-69, Cl. 340-239.
Hubel, Karl W.; and Braye, Emile H., to Union Carbide Corporation. Five membered zirconium, boron, thallium and gold heterocyclic compounds. 3,426,052, 2-4-69, Cl. 260-429.
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Huber, Franz J. A., to United States of America, Air Force. Cooling apparatus for high heat fluxes. 3,478,820, 11-18-69, Cl. 165-47.
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Huber, Ludwig Konrad; and Mandell, Harry Creston, Jr., to Pennsalt Chemicals Corporation. Preparation of amidosulfuryl fluoride by the reaction of trichlorophosphonitridosulfuryl chloride with hydrogen fluoride. 3,431,088, 3-4-69, Cl. 23-357.
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Huckstadt, Harold; Saleck, Wilhelm; Randolph, August; and Ranz, Erwin, to Agfa-Gevaert Aktiengesellschaft. Spirocyclic quaternary nitrogen compounds as silver halide sensitizers. 3,471,296, 10-7-69, Cl. 96-107.
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Huebler, Jack; Johnson, James L.; Schora, Frank C., Jr.; and Tarman, Paul B., to Consolidation Coal Company. Production of hydrogen via the steam-iron process. 3,442,620, 5-6-69, Cl. 23-214.
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Huff, Clark L.; and Huff, Bruce E. Fence cleaner. 3,444,674, 5-20-69, Cl. 56-25.4
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Huner, James H., to Upjohn Company, The. Aiding the regression of acute leukemia with 1-beta- D-arabinofuranosylcytosine. 3,444,294, 5-13-69, Cl. 424-180.
Hung, Han-Min, to Forbro Design Corporation. Overvoltage protection device for regulated power supplies. 3,449,634, 6-10-69, Cl. 317-31.
Hung, Han-Min, to Forbro Design Corporation. Ambient and component temperature compensated voltage current regulator. 3,480,852, 11-25-69, Cl. 323-4.
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Hungate, William. Valve disposing orifice cleaner in orifice as stem tip is compressed-seated. 3,446,234, 5-27-69, Cl. 137-244.
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Hungerford, Max, to American Machine & Foundry Company. Hood and battery holder for tractor. 3,437,165, 4-8-69, Cl. 180-68.5
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Hungerford, Richard C.; and Brown, Frank E., to Barnes-Hind International, Inc. Lens washing machine. 3,444,868, 5-20-69, Cl. 134-143.
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Hurtle, Ralph L., to General Electric Company. Electric current interrupting device. 3,430,016, 2-25-69, Cl. 200-144.
Hurtle, Ralph L., to General Electric Company. Circuit breaker mechanism. 3,430,164, 2-25-69, Cl. 335-22.
Hurtle, Ralph L., to General Electric Company. Electric circuit breaker with assisted arc interruption. 3,436,597, 4-1-69, Cl. 317-11.
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Husted, David W., to Baia Corporation. Dual format viewer. 3,446,549, 527-69, Cl. 352-104.
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Hutchinson, William Y., to Continental Scale Corporation. Portable scale with hand carrying hole in platform. 3,481,415, 12-2-69, Cl. 177-253.
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Hutchison, Stanley O.; Anderson, Glen W.; and Mc Kinnell, John C., to Chevron Research Company. Ammoniated foamed well circulation fluids and uses thereof. 3,486,560, 12-30-69, Cl. 166-292.
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Huth, Gerald C.; and McKinney, Russell A., to United States of America, Atomic Energy Commission. Radiation detector. 3,449,177, 6-10-69, Cl. 148-187.
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Hutson, Clifford L. Oral evacuator. 3,460,255, 8-12-69, Cl. 32-33.
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Huyvaert, Robert H.; and Steinbrunner, Arthur A., to Bendix Corporation, The. Positioning device. 3,456,323, 7-22-69, Cl. 29-200.
Hvale, James L.; and Baumgartner, Robert L., to Markus-Campbell Company. Tachistoscope having card advance means. 3,482,332, 12-9-69, Cl. 35-35.
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Jack, David; Ritchie, Alexander Crawford; Peel, Mervyn Evan; and Harper, Norman James, to Allen & Hanburys Limited. 4-Phenylpiperidine derivatives. 3,458,521, 7-29-69, Cl. 260-293.
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Jacobs, Carl M., to Tryco Manufacturing Co., Inc. Tool holder attachment for farm implement. 3,422,909, 1-21-69, Cl. 172-629.

Jacobs, Cornelis Adrianus Joannes: *See—*
van Boort, Henricus Johannes Joseph; and Jacobs, Cornelis Adrianus Joannes,3,484,637.

Jacobs, David R., to Franklin Electric Co., Inc. Limit switch control having switch mounting means. 3,461,254, 8-12-69, Cl. 200-47.

Jacobs, David: *See—*
Lange, Robert B.; Hebron, Roderick; and Jacobs, David,3,436,090.

Jacobs, Earl D.; and Quick, William H., to North American Rockwell Corporation. Sign detector. 3,428,816, 2-18-69, Cl. 250-218.

Jacobs, Earl D.: *See—*
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Jacobs, F. L., Co.: *See—*
Blake, Jack W., 3,466,107.
De Boer, Henry, 3,453,034.
DeBoer, Henry, 3,460,876.
DeBoer, Henry, 3,460,877.

Jacobs, Fred. Air conditioning apparatus. 3,470,946, 10-7-69, Cl. 165-50.

Jacobs, George W., to Reliance Electric and Engineering Company The, mesne. Conventional elevator control with additional means to selectively lock out floors. 3,428,148, 2-18-69, Cl. 187-29.

Jacobs, Gus D. Traction device. 3,425,624, 2-4-69, Cl. 238-14.

Jacobs, Harold J. Expansion bolt assembly. 3,421,404, 1-14-69, Cl. 85-73.

Jacobs, Harry E.; Jubin, John C., Jr.; and Masologites, George P., to Atlantic Richfield Company. Hydrogenation of detergent alkylate. 3,454,666, 7-8-69, Cl. 260-674.

Jacobs, Harry E.: *See—*
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Masologites, George P.; Jacobs, Harry E.; and White, Paul J.,3,477,943.

Jacobs, Henry S. Induced current torque transmitters. 3,423,616, 1-21-69, Cl. 310-105.

Jacobs, Herbert V.; and Wajda, Michael L., to Jacobs Machine Corporation. Thread control. 3,425,375, 2-4-69, Cl. 112-218.

Jacobs, Irwin M.: *See—*
United States of America,National Aeronautics and Space Administration, Administrator, 3,422,403.

Jacobs, Jacques M. H.; Hermsen, Andreas A. M.; Hendriks, Aalbert J.; and Teeling, Gerhardus A. M., to American Enka Corporation. Mixing apparatus. 3,423,076, 1-21-69, Cl. 259-180.

Jacobs, James W., to General Motors Corporation. Automatic liquid freezer. 3,433,030, 3-18-69, Cl. 62-186.

Jacobs, James W., to General Motors Corporation. Keeping insulation dry. 3,475,920, 11-4-69, Cl. 62-273.

Jacobs, James W.; and Williamitis, Victor A., to General Motors Corporation. Ice maker with oscillating movement during freezing. 3,451,227, 6-24-69, Cl. 62-345.

Jacobs, John H.; and Robinson, Charles F., to Bell & Howell Company. Information recording. 3,427,629, 2-11-69, Cl. 346-1.

Jacobs, John K.: *See—*
Geddes, Ray L.; and Jacobs, John K.,3,444,696.

Jacobs, Lorenz: *See—*
Bittner, Hans Joachim; and Jacobs, Lorenz,3,471,281.

Jacobs, Louis J.; Klaudinyi, Bela; and Fisher, Robert Earl, to Obermayer, S., Company, The. Expendable pattern for precision investment casting. 3,426,834, 2-11-69, Cl. 164-235.

Jacobs Machine Corporation: *See—*
Baron, Herschel; and Schwenk, Arthur, 3,463,482.
Jacobs, Herbert V.; and Wajda, Michael L., 3,425,375.

Jacobs Manufacturing Company, The: *See—*
Haviland, Girard S.; Gerber, Murray A.; and Stager, Francis W., 3,447,838.

Jacobs, Martin; and Roccatagliata, Raul J., to Combustion Engineering, Inc. Automatic furnace temperature control. 3,461,847, 8-19-69, Cl. 122-510.

Jacobs, Paul F.: *See—*
Cann, Gordon L.; Harder, Robert L.; and Jacobs, Paul F.,3,462,622.
Young, John T.; and Jacobs, Paul F.,3,464,810.

Jacobs, Paul H., to Motorola, Inc. Self-resetting semiconductor device protection circuit. 3,448,342, 6-3-69, Cl. 317-33.

Jacobs, Paul H.: *See—*
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Jacobs, Phillip, to Jacobs, Phil, Co., Inc. Maternity garment construction. 3,487,418, 12-30-69, Cl. 2-221.

Jacobs, Robert B. Vibrating transducer for flow and related measurements. 3,426,593, 2-11-69, Cl. 73-194.

Jacobs, Willi: *See—*
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Jacobs, Winston W., to New Rochelle Manufacturing Company. Vehicle with bridging structure. 3,427,746, 2-18-69, Cl. 46-206.

Jacobsen, Alfred, to Jenaer Glaswerk Schott & Gen. Attachment for introducing light into an image transmitting fiber-optical system for illuminating an object. 3,449,036, 6-10-69, Cl. 350-96.

Jacobsen, Alfred: *See—*
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Jacobsen, Bent Bulow; and Roe, Frederick Ormesher, to International Standard Electric Corporation. Pilot signal control system that precompensates outgoing signals for doppler shift effects. 3,428,898, 2-18-69, Cl. 325-15.
Jacobsen, Clas, to Allmanna Svenska Elektriska Aktiebolaget. Deionization of a gas discharge device by varying the tube parameters. 3,435,287, 3-25-69, Cl. 315-110.
Jacobsen, Gordon R. Air turning vane with removable closure for insertion of acoustical material. 3,455,412, 7-15-69, Cl. 181-50.
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Jacobsen, Jan Louis Wulff, to CCT Cinema Camera Technik AG. Stereo moving picture camera. 3,433,561, 3-18-69, Cl. 352-60.
Jacobsen, John B.; and Carpenter, William R., to Detrex Chemical Industries, Inc. Sight glass cleaning. 3,467,113, 9-16-69, Cl. 134-113.
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Heth, Sherman C.; and Lewis, Evan T., 3,429,109.
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Profenna, Leonardo C., 3,472,005.
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Jacobsen, Ronald Lowell; Kristoff, William Robert; Ohren, Tom H.; and Spatz, Dale, to Procter & Gamble Company, The. Feed device for a film reactor. 3,482,947, 12-9-69, Cl. 23-285.
Jacobsen, Sigurd S.; Bartosz, Frank J.; and Laidig, Manfred R., to Singer Company, The. Tufting presser foot for zigzag sewing machines. 3,420,197, 1-7-69, Cl. 112-235.
Jacobsen, Ulf J., to Jensen, Ejnar, & Son I/S. Mirror arrangement light source and photocell located on a common axis. 3,474,252, 10-21-69, Cl. 250-216.
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Jacobson, Alden H.: *See—*
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Jacobson, Alexander D.: *See—*
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Jacobson, Amnon, to Koor Industries and Crafts Co. Ltd. Installation for approaching portions of an airplane. 3,465,846, 9-9-69, Cl. 182-36.
Jacobson, Arthur L. Natural response indicator and system. 3,474,408, 10-21-69, Cl. 340-27.
Jacobson, Benjamin B. Engine governor responsive to vehicle speed. 3,461,988, 8-19-69, Cl. 180-105.
Jacobson, Bernhard E., to Universal, Inc. Tandem pulley drive means. 3,443,679, 5-13-69, Cl. 198-203.
Jacobson, Carol I. Mathematic instruction aid. 3,430,362, 3-4-69, Cl. 35-31.
Jacobson, Chester F., to General Electric Company. Rechargeable battery operated cigarette lighter and recharging and storage device therefor. 3,448,365, 6-3-69, Cl. 320-2.
Jacobson, Clayton J. Power-driven aquatic vehicle. 3,426,724, 2-11-69, Cl. 115-70.
Jacobson, David Esriel; and Ek, Stig Yngve, to Wegematic Corporation. Wear reduction additives. 3,426,684, 2-11-69, Cl. 102-38.
Jacobson, Earl C. Positionable control assembly. 3,431,983, 3-11-69, Cl. 173-43.
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Jacobson, Howard W.; and Pollock, Warren I., to Du Pont de Nemours, E. I., and Company. Chromium-containing silicide coatings on refractory-metal-base articles. 3,475,233, 10-28-69, Cl. 148-6.3
Jacobson, Kenneth E.; and Taylor, John T., to Beckman Instruments, Inc. Fluid coupling for continuous flow centrifuge. 3,443,747, 5-13-69, Cl. 233-22.
Jacobson, Leo V. Stapler. 3,451,606, 6-24-69, Cl. 227-110.
Jacobson, Ludwig A. Magnetic orthopedic device. 3,421,500, 1-14-69, Cl. 128-75.
Jacobson, Lynn A., to Massachusetts Institute of Technology. Rate counter. 3,486,007, 12-23-69, Cl. 235-92.
Jacobson, Martin, to Rau Findings Company. Snap fastener assembly. 3,454,993, 7-15-69, Cl. 24-217.
Jacobson, Morton J.; and Lundgren, Sten E., to Ampex Corporation. Surface finishing of magnetic tape by solvent exchange. 3,473,960, 10-21-69, Cl. 117-237.
Jacobson, Moses G.; and De Luca, Frank J., to Mine Safety Appliances Company. Gas detector. 3,455,807, 7-15-69, Cl. 204-195.
Jacobson, Paul E.: *See—*
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Jacobson, Perry J. Tilting band saw. 3,452,629, 7-1-69, Cl. 83-201.
Jacobson, Robert L., to Chevron Research Company. Denitrification process with recycle of extracted nitrogen compounds. 3,436,340, 4-1-69, Cl. 208-254.
Jacobson, Robert L.; Kluksdahl, Harris E.; and Spurlock, Burwell, to Chevron Research Company. Low-pressure reforming process with a platinum- rhenium catalyst. 3,434,960, 3-25-69, Cl. 208-138.
Jacobson, Robert L.; Kluksdahl, Harris E.; and Spurlock, Burwell, to Chevron Research Company. Low pressure reforming with a platinum-rhenium- iridium catalyst. 3,487,009, 12-30-69, Cl. 208-138.
Jacobson, Robert L.; and Spurlock, Burwell, to Chevron Research Company. Startup procedure for a platinum-rhenium catalyst reforming process. 3,449,237, 6-10-69, Cl. 208-138.
Jacobson, Robert L.; and Tolberg, Ronald S., to Chevron Research Company. Catalytic refining with hydrogen. 3,425,934, 2-4-69, Cl. 208-254.
Jacobson, Walter E., to Revere Corporation of America. Load cell for measuring concentric or eccentric loads. 3,422,445, 1-14-69, Cl. 73-141.
Jacobson, Walter E., to Revere Corporation of America. Flexible structure for yieldably withstanding forces. 3,433,064, 3-18-69, Cl. 73-141.
Jacobson, William P., to Anderson Bros., Mfg., Co. Container with self-closing cover. 3,437,199, 4-8-69, Cl. 206-78.
Jacobus, Alexander L. Means of depressing and/or holding-down pre-ten- sioning tendons in pre-tensioned concrete members employing draped, harped or depressed tendons. 3,457,687, 7-29-69, Cl. 52-226.
Jacobus, Dwight W.: *See—*
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Jacobus, Floyd. Air injector for a carburetor. 3,437,467, 4-8-69, Cl. 48-180.
Jacobus, John Lindsey. Art of craftsmanship. 3,482,334, 12-9-69, Cl. 35-72.
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Jacoby, Ben, Jr., to Owens-Illinois, Inc. Support structure for hollow article. 3,476,376, 11-4-69, Cl. 269-20.
Jacoby, Charles H., to International Salt Company. Solution mining and refining minerals. 3,421,794, 1-14-69, Cl. 299-5.
Jacoby, Charles H.; and Whelply, Frank V., to International Salt Company. Additive for inhibiting caking and freezing of sodium chloride and for inhibiting corrosion in the presence of sodium chloride brine. 3,428,571, 2-18-69, Cl. 252-383.
Jacoby, David; and Berhold, Rosalynne J., to Adolph's Food Products Mfg., Co. Meat additives. 3,469,995, 9-30-69, Cl. 99-108.
Jacoby, George V., to Radio Corporation of America. Self-synchronizing readout with low frequency compensation. 3,441,921, 4-29-69, Cl. 340-174.1
Jacoby, Hans; and Spauschus, Karl, to Werzeugmaschinenfabrik Gildemeister & Comp., A.G. Stock feed mechanism. 3,435,963, 4-1-69, Cl. 214-1.5
Jacoby, John Z.; and Vigliante, Frank S., to Bell Telephone Laboratories, Incorporated. Apparatus and method for telephone line scanning. 3,420,960, 1-7-69, Cl. 179-18.
Jacoby, Marvin: *See—*
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Jacoby, Robert H.; Morris, Earl E.; and Robinson, Robert L., Jr., to Pan American Petroleum Corporation. Recovery of oil by means of enriched gas injection. 3,465,823, 9-9-69, Cl. 166-263.
Jacocks, Claud L.: *See—*
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Jacono, James F. Vehicular variable speed drive system. 3,429,394, 2-25-69, Cl. 180-70.
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Jacques, James Keith: *See—*
Mole, Maurice Frederick; Jacques, James Keith; and Collins, John Desmond,3,442,986.
Jacques, James O.; Montgomery, David; and Kuckein, Paul A., to International Business Machines Corporation. Digital controller with automatic balance and manually adjusted operating point. 3,479,493, 11-18-69, Cl. 235-151.1
Jacques, Jean, to Merck & Co., Inc. Methylene-substituted-A-norgonanes. 3,439,022, 4-15-69, Cl. 260-488.
Jacques, Jean, to Merck & Co., Inc. 13-Alkyl A-nor-3-gonene-2-ones. 3,439,040, 4-15-69, Cl. 260-586.
Jacques, Lucien Gerard. Snow removing and melting machine. 3,456,368, 7-22-69, Cl. 37-12.

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Jacquier, Rene, to Plastugil. Process for preparing liquid resins capable of being rendered soluble in water in the form of a gel of thixotropic character. 3,464,944, 9-2-69, Cl. 260-23.5

Jacquot, Michel Jules: *See—*
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Jacuzzi, Candido, to Jacuzzi Bros., Incorporated. Energy storage unit. 3,442,292, 5-6-69, Cl. 138-30.

Jacuzzi, Candido, to Jacuzzi Bros., Incorporated. Liquid dispensing and metering assembly. 3,486,539, 12-30-69, Cl. 141-329.

Jacuzzi, Candido; Nash, Floyd M.; and Baroody, Anas J., to Jacuzzi Bros., Incorporated. Swimming pool construction. 3,427,662, 2-18-69, Cl. 4-172.

Jacuzzi Research, Inc.: *See—*
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Jacuzzi, Roy A., to Jacuzzi Research, Inc. Hydromassage installation. 3,452,370, 7-1-69, Cl. 4-180.

Jade Corporation, The: *See—*
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Kauffman, John Edward, 3,436,810.

Jadus, Dale K.: *See—*
Rediker, Robert H.; Hinkley, Everett D.; and Jadus, Dale K.,3,486,949.

Jaecklin, Andre A., to Ampex Corporation. Thin film register forming an alternately staggered array. 3,474,425, 10-21-69, Cl. 340-174.

Jaecklin, Andre A.: *See—*
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Jaeger, Benjamin E., to Brockway Glass Company, Inc. Rotary screen decorating machine. 3,425,343, 2-4-69, Cl. 101-36.

Jaeger, Benjamin E., to Brockway Glass Company, Inc. Rotary screen decorating machine. 3,425,344, 2-4-69, Cl. 101-37.

Jaeger, Horst, to Ciba Limited. Process for the separation of mixtures of aliphatic fluorine compounds by azeotropic distillation with an oxgenated hydrocarbon. 3,449,218, 6-10-69, Cl. 203-44.

Jaeger, Joseph M. Leakage-limiting devices for rotative machinery applications. 3,460,843, 8-12-69, Cl. 277-26.

Jaeger, Karl-Heinz; and Mittenzwei, Hellmut, to Solco Basel AG. Preparation of growth regulating compositions comprising thymus extracts. 3,466,367, 9-9-69, Cl. 424-95.

Jaeger, Karl; and Scheffel, Werner, to Linde Aktiengesellschaft. Adsorption tower. 3,432,995, 3-18-69, Cl. 55-179.

Jaeger Machine Company, The: *See—*
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Johanson, Frederic R.; and Smith, Meredith E., Jr., 3,477,380.

Jaeger, Richard J., Jr.; and Joel, Amos E., Jr., to Bell Telephone Laboratories, Incorporated. Equipment for serving customer-dialed calls including those requiring operator assistance. 3,484,560, 12-16-69, Cl. 179-27.

Jaeger, Rudolf; and Macho, Helmut, to Saurer, Adolph, Ltd. Pirnless shuttle. 3,456,693, 7-22-69, Cl. 139-125.

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Jaeger, Ulric R., to Olin Mathieson Chemical Corporation. In line heat exchanger with bypass. 3,439,739, 4-22-69, Cl. 165-164.

Jaeken, Jan, to Gevaert Photo-Producten N.V. Color photographic process. 3,447,923, 6-3-69, Cl. 96-55.

Jaeschke, Charles R.: *See—*
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Jaeschke, Charles R.; and Novacek, William G., to Sprague Electric Company. Encapsulated component. 3,484,536, 12-16-69, Cl. 174-52.

Jaeschke, Ralph L., to Eaton Yale & Towne Inc. Inertia simulating apparatus. 3,456,498, 7-22-69, Cl. 73-116.

Jaeschke, Ralph L., to Eaton Yale & Towne, Inc. Eddy-current coupling. 3,478,239, 11-11-69, Cl. 310-105.

Jaeschke, Ralph L., to Eaton Yale & Towne, Inc. Eddy current coupling. 3,486,052, 12-23-69, Cl. 310-105.

Jaeschke, Ralph L.; and Smith, Aubrey H., to Eaton Yale & Towne, Inc. Press speed control system with eddy current brake-clutch and over-under speed protective device. 3,450,910, 6-17-69, Cl. 310-95.

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Jaffe, Abram Aubrey; and Nadav, Eliahu, to Yissum Research Development Company. Fire and smoke detector. 3,470,551, 9-30-69, Cl. 340-237.

Jaffe, David Lawrence, to Polarad Electronics Corporation. Automatic pancake baker. 3,427,956, 2-18-69, Cl. 99-423.

Jaffe, Emanuel B.: *See—*
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Jaffe, Fred, to Grace, W. R., & Co. Esters of cyclohexane-1,2,4-tricarboxylic acid. 3,444,237, 5-13-69, Cl. 260-468.

Jaffe, Fred: *See—*
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Jaffe, Henry L.; and Adams, Ralph M., to Cedars of Lebanon-Mt. Sinai Hospitals of the Los Angeles Jewish Medical Center. Color adapter for multidetector scanner. 3,483,565, 12-9-69, Cl. 346-33.

Jaffe, Herbert Roy: *See—*
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Jaffe, Joseph, to Chevron Research Company. Method of operating a hydrofining process. 3,434,965, 3-25-69, Cl. 208-254.

Jaffe, Martin A.; and Lipfert, Donald E., to Sterling Drug Inc. Aerosol inhalating device. 3,429,310, 2-25-69, Cl. 128-173.

Jaffe, Sol S.: *See—*
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Jaffee, Robert I.: *See—*
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Jaffee, Robert I., to Douglas Aircraft Company, Inc., mesne. Sandwich structures and method. 3,427,706, 2-18-69, Cl. 29-471.1

Jaffee, Robert I., to Battelle Development Corporation, The. Method of producing ribbed-metal sandwich structures. 3,447,231, 6-3-69, Cl. 29-423.

Jaffier, Pierre Louis-Marie, to Societe Industrielle d'Etudes et de Realisations Scientifiques S.I.E.R.S. Faucet. 3,464,446, 9-2-69, Cl. 137-606.

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Jager, Albert: *See—*
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Jager, Edwin. Cooling device for cylindrical electrical components. 3,480,078, 11-25-69, Cl. 165-185.

Jager, Gerard: *See—*
Von Ardenne, Manfred; Heller, Jurgen; Jager, Gerard; and Rumberg, Heinz,3,457,569.

Jager, Heinz, to Westfalia Dinnendahl Groppel Aktiengesellschaft. Apparatus for drying and pre-heating of pulverulent material, particularly raw cement material. 3,419,968, 1-7-69, Cl. 34-57.

Jager, Heinz, to Westfalia Dinnendahl Groppel Aktiengesellschaft. Air classifier. 3,483,973, 12-16-69, Cl. 209-139.

Jager, Horst: *See—*
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Jager, Horst; Horstmann, Walter; Schundehutte, Karl-Heinz; Trautner, Kersten; Siegel, Edgar; and Sasse, Klaus, to Farbenfabriken Bayer Aktiengesellschaft. Azo dyestuffs containing a 2-organo sulfonylbenzo- thiazole group. 3,480,611, 11-25-69, Cl. 260-145.

Jager, Jolle: *See—*
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Jager, Karl, to International Standard Electric Corporation. Saturable core transformer circuit. 3,449,655, 6-10-69, Cl. 321-11.

Jager, Lothar, to North American Philips Company, Inc. Recording and/or play-back apparatus. 3,441,283, 4-29-69, Cl. 274-11.

Jager, Philipp, to Siemens Aktiengesellschaft. Valve for continuous removal of reaction water from a fuel cell. 3,479,224, 11-18-69, Cl. 136-86.

Jager, Rudolf; Macho, Helmut; and Zwiener, Rudolf, to Aktiengesellschaft Adolph Saurer. Weft thread holding arrangement. 3,430,665, 3-4-69, Cl. 139-116.

Jager, Sybout, to Werkspoor N.V. Centrifugal machine. 3,467,304, 9-16-69, Cl. 233-28.

Jager, Wolfgang; and Kossling, Alfred, to Veb Goephysik. Method of investigating subsurface bores and apparatus therefor. 3,443,642, 5-13-69, Cl. 166-315.

Jagersberger, Adolf, to Bleckmann & Co. Pressing and compressing tubular heaters. 3,478,423, 11-18-69, Cl. 29-615.

Jaggers, Henry T.; and Grant, Michael P., to Industrial Nucleonics Corporation. Hybrid phase dielectric materials gauging system with input signal frequency automatically variable in response to a

deviation from a reference phase shift which is also variable with frequency. 3,443,218, 5-6-69, Cl. 324-61.
Jagid, Bruce; and Rosansky, Martin G., to Leesona Corporation. Metal-oxygen fuel cell. 3,468,711, 9-23-69, Cl. 136-86.
Jago, John James, to Pilkington Brothers Limited. Liquid level indicating device. 3,444,737, 5-20-69, Cl. 73-290.
Jago, John J.; and Roberts, Deryck T., to Pilkington Brothers Limited. Method and apparatus for providing a gas curtain over a glass furnace window. 3,473,905, 10-21-69, Cl. 65-27.
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Jahn, Alex K.; and Nelson, Alfred R., to Dow Chemical Company, The. Process for the preparation of polymers in bead form. 3,442,881, 5-6-69, Cl. 260-93.5
Jahn, Dieter, to Aktiengesellschaft Brown, Boveri & Cie. Process for increasing the reverse voltage of thermally oxidized silicon members with at least one barrier layer. 3,476,661, 11-4-69, Cl. 204-140.
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Jahn, Reinhardt H., to Chicago Metallic Sash Company. Ventilated suspended ceiling structure. 3,475,869, 11-4-69, Cl. 52-173.
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Jakaitis, Eugene A.; Littler, Francis W.; and Roblendano, Emilio A., to Mobil Oil Corporation. Wax emulsions stabilized with a methyl cellulose ether. 3,432,319, 3-11-69, Cl. 106-170.
Jakas, Rimvydas P.; and Chorne, Juan, to General Electric Company. Method and means for separating individual fibers from a fibrous mass. 3,421,619, 1-14-69, Cl. 209-141.
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James, John C.; Wineman, Robert J.; and Gollis, Morton H., to United States of America, Army, mesne. 2-[3-(Morpholinopropyl)amino] ethanethiol or its acid addition salts. 3,462,429, 8-19-69, Cl. 260-247.1
James, John C.; Wineman, Robert J.; Gollis, Morton H., deceased; and Gollis, Bernard; administratrix, to Monsanto Research Corporation. Cyclic oxyalkyl compounds. 3,454,627, 7-8-69, Cl. 260-501.21
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James, Robert L., to Bendix Corporation, The. Pulse sample type demodulator including feedback stabilizing means. 3,482,174, 12-2-69, Cl. 329-101.
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Jayasimha, Mysore Somasekhara Rau: *See—*
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Jaye, Richard C., to Western Industries, Inc. Evaporator pad. 3,479,018, 11-18-69, Cl. 261-103.

Jayko, Michael E., to Crete, Charles A. Photoelectric absorption measurer having plunger for enclosing variable beam path lengths. 3,448,277, 6-3-69, Cl. 250-218.

Jaylis Industries, Inc.: *See—*
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Jayne, Keith D.: *See—*
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Jayne, Max L., to Sylvania Electric Products Inc. Electrical connector having facile engagement means. 3,432,795, 3-11-69, Cl. 339-17.

Jayne, Theodore D., to Nibco Inc., mesne. Soft solder joints and methods and materials for producing the same. 3,453,721, 7-8-69, Cl. 29-489.

Jayne-Williams, Derek James: *See—*
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Jazbutis, Anatolijus; and Swanson, Richard T., to Aetna Casualty and Surety Company, mesne. Simulator. 3,478,442, 11-18-69, Cl. 35-11.

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Jeakle, William G.: *See—*
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Jean, Bernard Louis Pierre: *See—*
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Jean, Henri; and Thibault, Claude, to Compagnie de Saint-Gobain. Gas phase manufacture of polyformaldehyde. 3,428,604, 2-18-69, Cl. 260-67.

Jeandupeux, Hubert E. Apparatus for the manufacture of long-pile rugs by knotting pile tufts in a fabric. 3,467,145, 9-16-69, Cl. 139-1.

Jeaneau, Adrien Louis Marie, to Etablissement J. J. Carnaud & Forges de Basse-Indre. Suspension devices fixed on receptacles, in particular on metal receptacles. 3,448,893, 6-10-69, Cl. 220-91.

Jeanmaire, Walter. Device for regulating the quantity delivered by a tuft feeder to cards. 3,474,501, 10-28-69, Cl. 19-105.

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Farge, Daniel; Jeanmart, Claude; and Messer, Mayer Naoum,3,450,698.
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Jeanmonod, Roland, to Ebauches S.A. Electric timepiece. 3,465,510, 9-9-69, Cl. 58-28.

Jeanneret, Jules Louis. Machining device having selectively controlled feed speeds. 3,429,205, 2-25-69, Cl. 77-32.7

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Jeannette, Joseph C., to Air Reduction Company, Incorporated. Wire feed apparatus. 3,447,730, 6-3-69, Cl. 226-176.

Jeantils, Claude; Grosclaude, Etienne; Garlot, Christian; and Petruzzi, Nicolino, to Les Laboratoires Dausse. Monohydrate of equimolecular complex of ascorbic acid and pyridoxine base. 3,459,761, 8-5-69, Cl. 260-297.5

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Jeavons, Daniel, to Taylor & Challen Limited. Press with adjustable brake cam to compensate for change in stroke. 3,463,286, 8-26-69, Cl. 192-134.

Jeavons, Daniel, to Taylor & Challen Limited. Press brakes. 3,470,989, 10-7-69, Cl. 192-130.

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Jechin, Harry, to Dossert Manufacturing Corporation. Multi-linked flexible connector. 3,487,159, 12-30-69, Cl. 174-72.

Jecker, Andrew E.: *See—*
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Jednacz, Thomas C., to Borg-Warner Corporation. Rectifier system with zero crossing control circuit for semiconductor switches. 3,437,904, 4-8-69, Cl. 321-5.

Jednacz, Thomas C., to Borg-Warner Corporation. Rectifier system for energizing thermoelectric load. 3,439,509, 4-22-69, Cl. 62-3.

Jednacz, Thomas C.; and Schmittle, Karl V., to Borg-Warner Corporation. Rectifier system with integral cycle control. 3,434,032, 3-18-69, Cl. 321-5.

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Jeff, William C.; Luyster, Thomas, Jr.; Lynch, James F., Jr.; and Moroli, Frank A., to Armitage, John L., & Co. Primer coating compositions containing carboxylated butadiene acrylonitrile copolymer, vinyl chloride copolymer, a polyacrylate, an epoxide resin and a phenol-formaldehyde resin. 3,480,691, 11-25-69, Cl. 260-831.

Jeffee, Saul P.; and Limnios, Gus, to Movielab, Inc. Cleaning and cooling system for photographic printing apparatus. 3,466,995, 9-16-69, Cl. 98-33.

Jeffee, Saul. Apparatus for processing film. 3,422,479, 1-21-69, Cl. 15-100.

Jeffee, Saul. Locking arrangement with indicator. 3,427,835, 2-18-69, Cl. 70-432.

Jeffee, Saul; and Kowalak, John, to Movielab, Inc. Film printing apparatus. 3,428,399, 2-18-69, Cl. 355-100.

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Jeffery, Warren C.; and Teague, Sidney P., to McWane Cast Iron Pipe Company. Pipe coupling. 3,480,300, 11-25-69, Cl. 285-93.
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Jeger, Oskar; Schaffner, Kurt; and Wehrli, Hans Ueli, to Ciba Corporation. Process for the manufacture of B-nor-or B-nor-19- norandrostanes. 3,428,537, 2-18-69, Cl. 204-158.
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Jenkins, Donald Glyn; and Parikh, Anil Chandrakant, to British Nylon Spinners Limited. Drawing and bulking of synthetic polymer. 3,474,612, 10-28-69, Cl. 57-34.
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Johnson, Malcolm O., to Mobil Oil Corporation. Air feed device for valve retract system in pneumatic acoustic source. 3,434,562, 3-25-69, Cl. 181-0.5
Johnson, Martin H.; and Spellman, Patrick J., to E&B Incorporated, mesne. Primary alkaline cell. 3,433,679, 3-18-69, Cl. 136-102.
Johnson, Marvin D. Deceleration warning signal system. 3,431,556, 3-4-69, Cl. 340-72.
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Johnson, Marvin M.: *See*—
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Johnson, Marvin M. Structure having light controlling means. 3,475,868, 11-4-69, Cl. 52-2.
Myers, John W.; and Johnson, Marvin M.,3,478,120.
Nelson, William T.; and Johnson, Marvin M.,3,459,824.
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Berry, Allan David; Johnson, Maurice Peter; and Whitbread, John Raymond,3,449,525.
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Zwiacher, Wayne E.; Kaser, Louis D.; Johnson, Maurice V., Jr.; Fennell, Alfred H.; and Riddington, Fred W.,3,465,495.
Johnson, Melvin E. Keyboard assembly. 3,422,720, 1-21-69, Cl. 84-435.
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Johnson, Melvin L.; and Le Vasseur, Arnold P., to Minnesota Mining and Manufacturing Company. Apparatus for applying retro-reflective bands on cylindrical surfaces. 3,424,127, 1-28-69, Cl. 118-219.
Johnson, Melvin O. Dual tractor tire attachment. 3,464,739, 9-2-69, Cl. 301-39.
Johnson, Merion L.; and Lupfer, Dale E., to Phillips Petroleum Company. Controlled feedstock division to parallel fractionators. 3,420,748, 1-7-69, Cl. 203-1.
Johnson, Merion L.; and Lupfer, Dale E., to Phillips Petroleum Company. Distillation column control with biasing signal as feedback correction for computed product flow rate. 3,449,215, 6-10-69, Cl. 203-3.
Johnson, Merriam E., to Eastman Kodak Company. Yarn material photographic processing apparatus. 3,442,196, 5-6-69, Cl. 95-89.
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Johnson, Neil E.: *See*—
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Johnson, Nels J. Explosively operated injection gun for treating trees. 3,461,588, 8-19-69, Cl. 42-1.
Johnson, Nicky M.: *See*—
Hackley, Thomas H.; and Johnson, Nicky M.,3,465,360.
Johnson, Nicky M., to Varian Associates. Electrographic recorder employing an analog-to- digital converter having a dual comparator means defining the dead zone. 3,434,154, 3-18-69, Cl. 346-32.
Johnson, Olin B., to Ford Motor Company. Method for improving operational stability of electrocoating bath. 3,444,064, 5-13-69, Cl. 204-181.
Johnson, Paul B.: *See*—
Taylor, Leta S.; Johnson, Paul B.; and Huskey, Eugene D.,3,421,457.
Taylor, Leta S.; Johnson, Paul B.; and Huskey, Eugene D.,3,453,885.
Taylor, Leta S.; Johnson, Paul B.; and Huskey, Eugene D.,3,463,843.
Johnson, Paul C., to Berkley & Company, Inc. Surface for water vehicles. 3,428,979, 2-25-69, Cl. 9-310.
Johnson, Paul C., to Parker Pen Company, The. Fibrous wick. 3,442,739, 5-6-69, Cl. 156-180.
Johnson, Paul C.; and Christenson, Harlan B., to Berkley & Company, Inc. Fishing rod structure. 3,436,857, 4-8-69, Cl. 43-18.
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Johnson, Paul H.; and Dollinger, Robert E., to Phillips Petroleum Company. Carbon black furnace and process employing insertable rods of catalytic refractory. 3,484,200, 12-16-69, Cl. 23-209.5
Johnson, Paul J. Incinerator. 3,455,257, 7-15-69, Cl. 110-14.
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Johnson, Peter D., to General Electric Company. Mercury bismuth halide photochemical arc lamp light sources. 3,450,925, 6-17-69, Cl. 313-229.

Johnson, Peter D., to General Electric Company. Metal halide vapor photochemical light sources. 3,484,640, 12-16-69, Cl. 313-210.
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Johnson, Ralph E., to Singer Company, The. Sewing machines with needle and loop taker operable not in predictably timed relationship. 3,476,067, 11-4-69, Cl. 112-182.
Johnson, Ralph E.; and Van Sant, Arthur D., to Portec, Inc. Rail anchor. 3,460,755, 8-12-69, Cl. 238-315.
Johnson, Ralph H. Rotating amusement device. 3,481,599, 12-2-69, Cl. 272-33.
Johnson, Ralph S. Aerial dispensing apparatus. 3,484,062, 12-16-69, Cl. 244-136.
Johnson, Randall W., to Automatic Radio Manufacturing Co., Inc. Mobile refrigeration unit having shaft in common with compressor, fan drive means and selectable hydraulic or electric motor. 3,477,637, 11-11-69, Cl. 230-214.
Johnson, Raymond A., to Diamond Walnut Growers, Inc. Method of color coating nutshells. 3,485,640, 12-23-69, Cl. 99-176.
Johnson, Rayner S., to Du Pont de Nemours, E. I., and Company. Aryl alkoxythioureas. 3,457,292, 7-22-69, Cl. 260-453.
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Johnson, Richard D. Mineral bed backwashing devices. 3,455,458, 7-15-69, Cl. 210-197.
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Johnson, Richard S., to Modine Manufacturing Company. Method of making an expanded metal fin for an oil cooler. 3,456,320, 7-22-69, Cl. 29-157.3
Johnson, Robert A.; and Teske, Roger J., to Collins Radio Company. Mechanical filter having general stopband characteristics. 3,440,574, 4-22-69, Cl. 333-72.
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Johnson, Robert Phillip; and Oswald, John Paul, to Abbott Laboratories. Aroylalkyl derivatives of 1,2,3,4-tetrahydro-5H-pyrido[4,3b]indoles. 3,466,293, 9-9-69, Cl. 260-294.9
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Johnson, Robert; and Jones, Roy E., to Monsanto Company. Quaternary ammonium salt recovery. 3,484,348, 12-16-69, Cl. 204-73.
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Dykema, James A.; and Johnson, Roger D.,3,427,096.
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Johnson, Roger W., to General Motors Corporation. Electrical stock removal cutting tool electrode. 3,476,676, 11-4-69, Cl. 204-284.
Johnson, Rollie C.; and Melchor, Eugene B., to E & T Company. Method and apparatus for presentation of aural effects and visual displays. 3,474,774, 10-28-69, Cl. 128-1.
Johnson, Ronald V., to Hoerner-Waldorf Corporation. Book folder. 3,441,195, 4-29-69, Cl. 229-40.
Johnson, Ronald V., to Hoerner-Waldorf Corporation. Recessed end containers. 3,465,946, 9-9-69, Cl. 229-40.
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Johnson, Wallace J. S.; and Fisher, Robert E., to Up-Right, Inc. Scaffold. 3,454,131, 7-8-69, Cl. 182-115.
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Johnson, Wallace J. S.; and Fisher, Robert E., to Up-Right, Inc. Supporting device. 3,469,343, 9-30-69, Cl. 47-46.
Johnson, Wallace J. S.; Fisher, Robert E.; and Claxton, Gerald L., to Up-Right, Inc. Pneumatic nozzle assembly for harvesting grapes and berries. 3,420,046, 1-7-69, Cl. 56-330.

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Johnson, Wayne R.; and Jorgensen, Finn, to United Control Corporation, mesne. Magnetic recording head with bias applied to the gap spacer. 3,467,789, 9-16-69, Cl. 179-100.2
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Johnston, David B. R.; Patchett, Arthur A.; and Windholz, Thomas B., to Merck & Co., Inc. production thereof. 3,487,076, 12-30-69, Cl. 260-239.55
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Johnston, Donald S. Process for producing fish steaks. 3,433,647, 3-18-69, Cl. 99-111.
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Johnston, Gerald T.; Fleming, Joseph T.; and Boyd, Robert L., to Ramsey Controls, Inc. Self-commutating inverter. 3,465,233, 9-2-69, Cl. 321-45.
Johnston, Glenn E.; and Windsor, Meredith M., to Star Cutter Company. Fluid manifold for electrical discharge machining apparatus. 3,441,705, 4-29-69, Cl. 219-69.
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Johnston, James R. Coupling device. 3,427,691, 2-18-69, Cl. 24-73.
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Johnston, James R. Fluid line coupler. 3,454,047, 7-8-69, Cl. 137-614.04
Johnston, James S., to Balfour, Henry, and Company Limited. Film molecular stills and evaporators. 3,428,106, 2-18-69, Cl. 159-6.
Johnston, James Stewart, to Rosemount Engineering Company Limited. Chart recorder using a thread marker. 3,430,257, 2-25-69, Cl. 346-112.
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Johnston, Lawrence M., Jr., to International Harvester Company. Self-energizing synchronizing clutch. 3,426,874, 2-11-69, Cl. 192-38.
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Johnston, Mack S., to Johnston Enterprises, Inc. Beer tapping device. 3,435,997, 4-1-69, Cl. 222-400.7
Johnston, Mack S., to Johnston Enterprises, Inc. Tapping device for beer kegs and the like. 3,438,553, 4-15-69, Cl. 222-400.7
Johnston, Mack S., to Johnston Enterprises, Inc. Tapping device for beer kegs and the like. 3,439,844, 4-22-69, Cl. 222-398.
Johnston, Nelson G., to Dow Chemical Company, The. Method for decreasing friction in mopping. 3,449,255, 6-10-69, Cl. 252-117.
Johnston, Norris, to Shirley, Kirk R. Self-contained downhole parameter signalling system. 3,437,992, 4-8-69, Cl. 340-18.
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Johnston, Thomas Joseph, to Reynolds Metals Company. Alumina reduction cell. 3,475,314, 10-28-69, Cl. 204-243.
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Johnston, William V., to General Electric Company. Heated static port apparatus. 3,443,058, 5-6-69, Cl. 219-201.
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Johnstone, Paul L., to Hercules Incorporated. Electrical capacitors. 3,430,116, 2-25-69, Cl. 317-258.
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Kamoji, Yoshiaki; and Nakamura, Shoichi, to Sony Corporation. Multi-track tape drive system for reversing tape travel after cessation of intelligence signal output from all channels. 3,461,249, 8-12-69, Cl. 179-100.2

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Kamp, Ronald C., to International Harvester Company. Pedal and governor operated fuel control for dual induction engine. 3,422,802, 1-21-69, Cl. 123-75.

Kamp, Ronald C., to International Harvester Company. Variable volume accumulator seat suspension. 3,430,444, 3-4-69, Cl. 60-51.

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Kamper, Helmut, to Brero & Co. Fasteners. 3,445,901, 5-27-69, Cl. 24-201.

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Kampert, Keith W.; and Houtz, Kenneth E., to International Harvester Company. Self-aligning thrust bushing assembly. 3,434,766, 3-25-69, Cl. 308-135.

Kampf-Emden, Gerhard, to Demag Aktiengesellschaft. Tunnel driving shield having pivotally mounted drilling boom. 3,469,884, 9-30-69, Cl. 299-33.

Kampf, Leo. Dimensionally stabilized concrete and mortar. 3,442,672, 5-6-69, Cl. 106-87.

Kampf, Otto W., to Meyercord Co., The. Rotary tax stamp numbering machine with clutch drive. 3,474,727, 10-28-69, Cl. 101-219.

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Kampfer, Helmut; Gotze, Johannes; Reister, Oskar; and Bockly, Erich, to Agfa-Gevaert Aktiengesellschaft. Light-sensitive materials optically sensitized with chloropropylsulfonic acid substituted merocyanines. 3,480,439, 11-25-69, Cl. 96-102.

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Kampmeier, Frederick J., to Ingersoll Milling Machine Company, The. Boring machine with vibrationless boring bar. 3,438,289, 4-15-69, Cl. 77-56.

Kampmeier, Frederick J.; and Seborg, Earnest Y., to Ingersoll Milling Machine Company, The. Bearing support for tool spindles. 3,438,287, 4-15-69, Cl. 77-56.

Kamps, Henry E., to United States of America, Air Force. Spray pattern measurement. 3,459,049, 8-5-69, Cl. 73-432.

Kan, Billy; and Katz, Saul N., to General Foods Corporation. Process for agglomerating coffee. 3,424,589, 1-28-69, Cl. 99-71.

Kan, Masao; Hyodo, Hiroshi; Watanabe, Akio; and Enami, Shigekazu, to Pilot Man-Nen-Hitsu Kabushiki Kaisha. Pressure sensitive copying sheet and the production thereof. 3,432,327, 3-11-69, Cl. 117-36.2

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Kanaan, Ziyad R., to General Motors Corporation. Spray-type distillation using gas turbine exhaust distilland heating. 3,425,914, 2-4-69, Cl. 202-177.

Kanaga, Amos R. Tri-cornered bag. 3,430,841, 3-4-69, Cl. 229-53.

Kanagy, Jonas Jacob; and Kinsinger, Herman Milton. Flail type bottom unloader for silos. 3,455,470, 7-15-69, Cl. 214-17.

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Kanamori, Koichi; and Seto, Iwao, to Ebara Infilco Kabushiki Kaisha. Continuous ion exchange apparatus. 3,459,306, 8-5-69, Cl. 210-189.

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Kandel, Walter. Self-marking firearm target including a resiliently deformable marking sheet. 3,423,092, 1-21-69, Cl. 273-102.1

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Kane, Patrick A. Electrokinetic tutoring means. 3,421,231, 1-14-69, Cl. 35-9.
Kane, Patrick A. Releasable tape-reel securing means. 3,424,396, 1-28-69, Cl. 242-74.
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Katzman, Lawrence; and Briggin, Edward, to Kaz Manufacturing Co., Inc. Humidifier. 3,420,509, 1-7-69, Cl. 261-142.

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Kaufman, Norman C., to Thompson, Earl A., Manufacturing Co. Measuring device. 3,439,526, 4-22-69, Cl. 73-37.9

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Keller, Adam L., to Swiss Controls & Research, Inc. Multivibrator flasher circuit. 3,421,108, 1-7-69, Cl. 331-113.
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Kelley, Archie W. Rotatable and depressible washing apparatus. 3,451,628, 6-24-69, Cl. 239-587.
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Kelley, Thomas Ray, to I-T-E Imperial Corporation, mesne. Voltage regulator circuit. 3,459,957, 8-5-69, Cl. 307-71.
Kelley, Thomas Ray, to I-T-E Imperial Corporation, mesne. Performance monitor for rectifier cells. 3,462,754, 8-19-69, Cl. 340-253.
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Kelling, Leroy U. C., to General Electric Company. Velocity control system. 3,428,792, 2-18-69, Cl. 235-151.11
Kelling, Leroy U. C., to General Electric Company. Absolute feedrate velocity control for multiaxes pulse responsive servo using all digital circuitry. 3,428,876, 2-18-69, Cl. 318-18.

Kelling, Leroy U. C., to General Electric Company. Offset compensation for numerical controls. 3,449,554, 6-10-69, Cl. 235-151.11
Kellman, Irving H., to Sandell Manufacturing Company, Inc. Expansion joint. 3,470,662, 10-7-69, Cl. 52-99.
Kellner, Ferdinand. Bearing device for straight-line guiding of objective components. 3,472,564, 10-14-69, Cl. 308-4.
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Kelly, Charles A.; and Pierson, Roland L., to International Business Machines Corporation. Apparatus for indicating the transient response of circuit elements. 3,443,227, 5-6-69, Cl. 324-158.
Kelly, Cornelius James Noel; and Knott, Robert Franklin, to Canadian Industries Limited. Aqueous slurry explosive composition containing a chlorinated organic compound as sensitizer. 3,431,154, 3-4-69, Cl. 149-38.
Kelly, Daniel Allcott; and Bernard, John E., Jr. Five-way hingeless ventilator. 3,456,571, 7-22-69, Cl. 98-2.
Kelly, Donald A. Compound rotary engines. 3,426,735, 2-11-69, Cl. 123-16.
Kelly, Donald A. High compression rotary I.C. engine. 3,452,725, 7-1-69, Cl. 123-16.
Kelly, Donald A. Radial rotary-dual mode-internal combustion engine. 3,461,849, 8-19-69, Cl. 123-16.
Kelly, Donald A. Multiple piston vane rotary internal combustion engine. 3,464,395, 9-2-69, Cl. 123-16.
Kelly, Donald A. Compound vane rotary internal combustion engine. 3,478,728, 11-18-69, Cl. 123-16.
Kelly, Donald A. High compression radial/rotary I.C. engine. 3,486,487, 12-30-69, Cl. 123-16.
Kelly, Donald H., to Chemagro Corporation. Manufacture of bis(1,2,2-trichloroethyl) sulfide. 3,470,255, 9-30-69, Cl. 260-609.
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Kelly, James W. Process for conditioning a hard snow or ice- like snow covered ski slope and apparatus therefor. 3,463,548, 8-26-69, Cl. 299-10.
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Kelly, Michael J.; and Rekiere, Bernard J., to Automatic Electric Laboratories, Inc. Nonlinear PCM encoder having few analog-to-quantized signal comparisons with respect to the period of the PCM signal generated. 3,452,297, 6-24-69, Cl. 332-9.
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Kelly, Peter Bernard, to Formica Corporation. Printing ink comprising a dispersion of a pigment and a binder in an inert organic solvent wherein the binder is a blend of a methacrylate polymer and polyvinylidene fluoride. 3,454,518, 7-8-69, Cl. 260-31.4
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King, Joel D., to Texas Instruments, Incorporated. Neutrally buoyant hydrophone streamer. 3,480,907, 11-25-69, Cl. 340-9.
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Kirchler, Lewis, to International Harvester Company. Hose block swivel. 3,422,729, 1-21-69, Cl. 92-146.
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Kirchner, Carl O.; and King, John T., to Leggett and Platt Incorporated. Coil spring positioning device. 3,469,608, 9-30-69, Cl. 140-3.
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Kirkland, Jerry J., to Procter & Gamble Company, The. Oral compositions for retarding dental plaque formation comprising benzohydroxamic acid. 3,427,381, 2-11-69, Cl. 424-54.
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Kirschnek, Helmut; Lehmann, Wolfgang; and Quaedvlieg, Mathieu, to Farbenfabriken Bayer Aktiengesellschaft. Process and composition for imparting antistatic finish to textile materials. 3,441,435, 4-29-69, Cl. 117-139.5
Kirschnek, Helmut; and Quaedvlieg, Mathieu, to Farbenfabriken Bayer Aktiengesellschaft. Cationic active agent and a method for softening a washable textile fabric therewith. 3,451,844, 6-24-69, Cl. 117-139.5
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Klimstra, Paul D., to Searle , G. D., & Co.17-Alkenyl/alkynyl-5α-androst-1-ene-3β, 17β- diols, esters thereof and intermediates thereto. 3,435,030, 3-25-69, Cl. 260-239.55
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Knapp, Emil P., to Lear Siegler, Inc., mesne. Maximum allowable airspeed pointer. 3,435,675, 4-1-69, Cl. 73-182.
Knapp, Emil P., to Lear Siegler, Inc. Compensating means for synchro output for barometrically actuated systems. 3,478,593, 11-18-69, Cl. 73-387.
Knapp, Emil, to Siegler, Lear, Inc., mesne. Airspeed warning device. 3,440,601, 4-22-69, Cl. 340-27.
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Knapp, Frank T., to United States Envelope Company. Blank shingling mechanism for envelope forming machine. 3,479,025, 11-18-69, Cl. 271-2.
Knapp, George F. Room cooling system. 3,459,257, 8-5-69, Cl. 165-3.
Knapp, Gordon G., to Ethyl Corporation. 3,5 dialkyl-4-hydroxythiobenzamides. 3,474,094, 10-21-69, Cl. 260-247.1
Knapp, Gordon G.; and Kleiman, Joseph P., to Ethyl Corporation. Fuel oil composition. 3,458,296, 7-29-69, Cl. 44-66.
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Knapp, James G., to Knapp Design Associates, Inc. Heater for towels. 3,457,389, 7-22-69, Cl. 219-448.
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Knapp, Peter; and Wallstein, Dieter, to Aktiengesellschaft Brown, Boveri & Cie. Load controlled oscillatory circuit inverter. 3,462,672, 8-19-69, Cl. 321-43.
Knapp, Phillip M.; and Wright, Paul E., to AAI Corporation. Hit indicator system with barrel-bore mounted photoscope. 3,483,636, 12-16-69, Cl. 35-25.
Knapp, Richard A., to Carson Laboratories, Inc. Color center information storage and retrieval system. 3,440,621, 4-22-69, Cl. 340-173.
Knapp, Robert L.: *See*—
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Knapp, Theodore F., to Dura Corporation, mesne, a wholly-owned subsidiary of Kidde, Walter, & Company, Inc. Motor with multiplex wave wound disc armature. 3,480,815, 11-25-69, Cl. 310-268.
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Knapp, Wilhelm, to Teves, Alfred GmbH. Liquid cooled hydrodynamic brake system for motor vehicles. 3,451,511, 6-24-69, Cl. 188-90.
Knapp, Wilhelm, to Teves, Alfred, G.m.b.H. Magnetic brake shoe securing means. 3,476,217, 11-4-69, Cl. 188-73.
Knapp, Wilhelm; and Schlor, Karl, to Teves, Alfred, G.m.b.H. Hydrodynamic brake for automotive vehicles. 3,482,659, 12-9-69, Cl. 188-90.
Knapp, William A., Jr., to Norden Laboratories, Inc. Method of treating an animal having demodectic mange. 3,422,182, 1-14-69, Cl. 424-10.
Knapp, William E.: *See—*
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Knapp, William H.; Gochanour, Caroll Q.; and De Pauw, Richard A., to International Harvester Company. End feeding arrangement. 3,464,419, 9-2-69, Cl. 130-27.
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Knappstein, Johannes; and Thiersch, Friedrich, to Still, Carl, Firma. Inclined rotary furnace. 3,461,037, 8-12-69, Cl. 202-131.
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Knechtel, Eral D.; and Pitts, William C., to United States of America, National Aeronautics and Space Administration. Two-force-component measuring device. 3,425,272, 2-4-69, Cl. 73-142.
Knechtel, Wilhelm. Powder dispensing cylinder for an electrostatic powder fixing device. 3,464,383, 9-2-69, Cl. 118-637.
Knechtli, Ronald C., to Hughes Aircraft Company. Electron injection plasma variable reactance device with perforated anode in the electron path. 3,439,225, 4-15-69, Cl. 315-39.
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Knell, Martin, to Geigy Chemical Corporation. N-perfluoroalkanoylamino-and N- perfluoroalkanoylaminoalkyl acrylamides. 3,475,434, 10-28-69, Cl. 260-268.
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Knerr, Reinhard H., to Bell Telephone Laboratories, Incorporated. Waveguide-stripline transducer. 3,462,713, 8-19-69, Cl. 333-21.
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Kneubuehl, Herman J. Poultry water cup and valve. 3,483,847, 12-16-69, Cl. 119-75.
Knglsey, Jack D.; and Prener, Jerome S., to General Electric Company. Coherent light source utilizing pentavalent manganese activated calcium chlorophosphate crystal. 3,432,769, 3-11-69, Cl. 331-94.5

Knibiehly, Earle M., to Logetronics, Inc. Drier for film processors. 3,434,225, 325-69, Cl. 34-160.
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Knickerbocker, Karl. Coin controlled vending mechanism utilizing a plurality of coins of different denominations. 3,464,530, 9-2-69, Cl. 194-71.
Kniel, Ludwig, to Lummus Company, The. Utilization of propane recovered from liquefied natural gas. 3,456,032, 7-15-69, Cl. 260-683.
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Knight, Basil Edward; and Shufflebotham, David, to C.A.V. Limited. Liquid fuel supply systems. 3,456,884, 7-22-69, Cl. 239-533.
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Knight, Homer A., to Westinghouse Air Brake Company. Combined check valve and choke valve device. 3,486,527, 12-30-69, Cl. 137-513.3
Knight, John R.; and Leworthy, John, to British Aircraft Corporation (Operating) Limited. Lightning conductors in aircraft. 3,428,270, 2-18-69, Cl. 244-1.
Knight, John V.; and Jones, Frederick E. Razor blade tool device. 3,462,836, 8-26-69, Cl. 30-331.
Knight, Mark Berwyn, to RCA Corporation. Television scanning and power supply system. 3,450,936, 6-17-69, Cl. 315-27.
Knight, Mark Berwyn, to RCA Corporation. Phase comparison circuit. 3,456,075, 7-15-69, Cl. 178-7.3
Knight, Milton A. Electrohydrodynamic alternating current generator. 3,440,458, 4-22-69, Cl. 310-11.
Knight, Milton A. Battery with multi-layer electrodes. 3,484,290, 12-16-69, Cl. 136-6.
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Knizia, Klaus, to Steinmuller, L. & C., G.m.b.H. Circuit for a regenerative preheating. 3,420,212, 1-7-69, Cl. 122-1.
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Knobe-Dubs, Fritz, to Elektro-Apparatebau F. Knobel & Co. Automatic starter switch for preheating and ignition of fluorescent lamps having heated cathodes. 3,458,757, 7-29-69, Cl. 315-99.
Knoblauch, David E. Hydraulically controlled exercising a weight lifting device. 3,451,271, 6-24-69, Cl. 73-379.
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Koch, Bernhard R., to Grob & Co. Aktiengesellschaft. Heddle frame for looms. 3,434,505, 3-25-69, Cl. 139-92.

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Koch, Carl, to Sinar AG Schaffhausen. Photographic focusing camera. 3,479,945, 11-25-69, Cl. 95-50.

Koch, Charles H., Jr., to Young Windows, Inc. Runner or guideway. 3,449,863, 6-17-69, Cl. 49-428.

Koch, David A., to Chrysler Corporation. Sealing apparatus for rotary mechanism. 3,480,203, 11-25-69, Cl. 230-145.

Koch, David A.: *See—*
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Koch, Helmut; Heidemann, Hans Heinrich; Birk, Peter; Busch, Hans-Jurgen; and Bernhardt, Jost, to Bernhardt Apparatebau G.m.b.H., & Co. Life jacket. 3,441,964, 5-6-69, Cl. 9-338.
Koch, Henry A.; and Long, Robert L. Wheel washing apparatus. 3,433,236, 3-18-69, Cl. 134-45.
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Koch, Louis, to Kohnstamm, H., & Co., Inc. Color compositions. 3,485,642, 12-23-69, Cl. 99-148.
Koch, Ludwig W., to Continental Oil Company. Handling of particulate ship cargo. 3,445,008, 5-20-69, Cl. 214-14.
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Koch, Peter, to United States of America, Agriculture. Method for producing studs from cordwood and veneer cores. 3,443,612, 5-13-69, Cl. 144-316.
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Koch, Walter; and Zugel, Ottmar, to Metallgesellschaft Aktiengesellschaft, and Steel Company of Canada Limited, The. Process for the recovery of excess carbon from the product of an iron ore direct reduction. 3,462,262, 8-19-69, Cl. 75-33.
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Kocher, Ernst-Ulrich; Wagner, Kuno; Von Der Emden, Wolfgang; and Dankert, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Polyoxymethylene copolymers. 3,477,992, 11-11-69, Cl. 260-67.
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Kramer, Daniel E., to Kramer Trenton Co. Refrigerating system designed for commercial freezers and refrigerators. 3,482,416, 12-9-69, Cl. 62-278.
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Kramer, Josef; Irmscher, Klaus; Voge, Hans-Otto; and Halpaap, Herbert, to Merck, E., A.G. Novel substituted flavonoids. 3,450,717, 6-17-69, Cl. 260-340.5
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Kraus, Charles P., to United States of America, mesne. Diode switch. 3,459,968, 8-5-69, Cl. 307-259.
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Krenke, Vincent G., to Casco Products Corporation. Delayed action circuit controller. 3,433,969, 3-18-69, Cl. 307-10.
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Krepps, James Edgar, Jr., to Tarzian, Sarkes, Inc. Gear reducer. 3,422,687, 1-21-69, Cl. 74-10.8
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Krieg, Galen W. Coupling with bonded liner. 3,427,050, 2-11-69, Cl. 285-55.
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Krimmel, Carl Peter, to Searle, G. D., & Co. Adamantyl dialkylaminoalkylcarbamates. 3,452,082, 6-24-69, Cl. 260-482.
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Kroutil, Larry O.: *See—*
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Krueger, Albert P.: *See—*
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Krueger, Curtiss C.; and Worley, Ronald C., to Ryan Aeronautical Co., The. Transistor microwave generator with second harmonic output. 3,439,287, 4-15-69, Cl. 331-47.
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Krueger, Robert C., to PPG Industries, Inc. Non-ski finish. 3,450,563, 6-17-69, Cl. 117-161.
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Krumbein, Fritz, to Zeiss Ikon Aktiengesellschaft. Motion picture projector. 3,447,868, 6-3-69, Cl. 352-173.

Krumbein, Fritz, to Zeiss Ikon Aktiengesellschaft. Film advancing device. 3,460,730, 8-12-69, Cl. 226-64.

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Krumbein, Simeon J.: *See—*
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Krumreich, Charles L., to Bell Telephone Laboratories, Incorporated. Telephone set. 3,444,329, 5-13-69, Cl. 179-100.

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Kruse, Louis C.; and Tierney, Arthur P., to Cambridge Instrument Company, Inc. Oxygen detector. 3,450,619, 6-17-69, Cl. 204-195.

Kruse, Marvin A., to Crane, H. W., Company. Door operating mechanism. 3,435,558, 4-1-69, Cl. 49-200.

Krusinski, Joseph, to Triax Company, The. Transfer means for a load carrier in a storage system. 3,432,046, 3-11-69, Cl. 214-16.4

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Krutein, Manfred G. Sea mining method and apparatus. 3,438,142, 4-15-69, Cl. 37-195.

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Kruth, Andre E. Flexible ladder rendered rigid by use. 3,429,399, 2-25-69, Cl. 182-196.

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Kruzel, Joseph John. Pitching and batting device. 3,469,840, 9-30-69, Cl. 273-26.

Kruzell, George R. Shock-proof telescopic gun sight mount. 3,483,623, 12-16-69, Cl. 33-50.

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Kubo, Koichiro; Omori, Fumitaka; and Murai, Munehisa, to Shimadzu Seisakusho Ltd., and Todo Seisakusho Ltd. Automatic knotter. 3,463,528, 8-26-69, Cl. 289-3.
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Kudlaty, Walter J., to Marvel Engineering Company. Filter and housing structure. 3,476,251, 11-4-69, Cl. 210-232.
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Kuhnle, Ernst. Scale. 3,477,531, 11-11-69, Cl. 177-171.

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Kushihashi, Akira, to Nippon Sheet Glass Co., Ltd. Glass having a colored zone whose boundary has been blurred and method of producing the same. 3,455,722, 7-15-69, Cl. 117-45.

Kushihashi, Akira; and Fujiwara, Kenji, to Nippon Sheet Glass Co., Ltd. Method of forming semitransparent coating of gold on glass surface. 3,484,263, 12-16-69, Cl. 117-33.3

Kushmuk, Walter P., to Ammco Tools, Inc. Brake disc grinder. 3,456,401, 7-22-69, Cl. 51-259.

Kushmuk, Walter P.; and Bogaerts, Leo C., to Immco Tools, Inc. Wheel balancer tilting mechanism. 3,483,757, 12-16-69, Cl. 73-485.

Kushner, Lester L. Magnetic beam switching cathode-ray tube. 3,426,239, 2-4-69, Cl. 315-21.

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Kusiak, Edward H.: *See—*
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Kusik, Alan, to Organon, Inc. Collection assembly for diagnostic testing. 3,437,206, 4-8-69, Cl. 210-231.

Kusik, Charles L.: *See—*
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Kusko, Alexander: *See—*
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Kusmer, Kasimir C. Land vehicle propulsion. 3,420,326, 1-7-69, Cl. 180-6.2

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Kusserow, Howard F., to Denver Plastics, Inc. Bung for barrel. 3,473,686, 10-21-69, Cl. 217-108.

Kussmaul, Edwin E., to Kelek Company, The. Pressure adjustment means for bolted contact switch. 3,458,680, 7-29-69, Cl. 200-170.

Kussy, Frank W.; and Di Marco, Bernard, to I-T-E Circuit Breaker Company. Electromagnet. 3,437,885, 4-8-69, Cl. 317-150.

Kuster, Edward H. Protective garment hanger bracket. 3,423,058, 1-21-69, Cl. 248-301.

Kuster, Harry B., to Golay & Co., Inc. Package unit for handling shipping containers. 3,451,568, 6-24-69, Cl. 214-77.

Kusters, Eduard; and Appenzeller, Valentin. Method and means for the delayed passing of textile and other breadths through a processing chamber. 3,448,469, 6-10-69, Cl. 8-150.

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Kustwin, Leo Frank, to Crane Co. Coupling stop adjustment for rotary valves. 3,429,556, 2-25-69, Cl. 251-285.

Kusuda, Fuyuki; Murayama, Masao; Matsuo, Yoshiharu; Okumura, Hideo; and Tatewaki, Nobukiyo, to Nippon Shinyaku Co., Ltd. Imidazolidinone derivatives. 3,442,892, 5-6-69, Cl. 260-240.

Kutas, Albert F.; Allen, James Terry; and Jelinek, Jerry G., to Parker-Hannifin Corporation. Liner seal for diesel engines and the like. 3,485,142, 12-23-69, Cl. 92-169.

Kutch, Leonard P., to Pullman Incorporated. Operating mechanism for vehicle discharge means. 3,447,703, 6-3-69, Cl. 214-63.

Kutchai, Jacob H. Structural assembly. 3,485,005, 12-23-69, Cl. 52-648.

Kutcher, Eugene R.: *See—*
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Kutchera, Arthur W., to Minnesota Mining and Manufacturing Company. Method of processing a photographic film insert in an aperture card. 3,423,204, 1-21-69, Cl. 96-27.

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Kutik, Louis F., 50% to Gronemeyer, Erich W. Plastic product. 3,446,341, 5-27-69, Cl. 206-46.

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Kutik, Louis F.; and Gronemeyer, Erich W. Mold apparatus for bristled products. 3,467,990, 9-23-69, Cl. 18-42.

Kutner, Abraham, to Hercules Incorporated. Process for purifying polyolefins. 3,445,444, 5-20-69, Cl. 260-93.7

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Kutschbach, Ernst, to VEB Buchungsmaschinenwerk Karl Marx-Stadt. Disconnectable pulse generator. 3,461,404, 8-12-69, Cl. 331-111.

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Kuwabara, Susumu, to Beltek Kabushiki Kaisha. Interchangeable four-track and eight-track magnetic recording and reproducing device. 3,465,940, 9-9-69, Cl. 226-176.

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Kuzara, James H., to Reliance Electric and Engineering Company, The. Group elevator control having car call reset advance hall call assignment. 3,450,231, 6-17-69, Cl. 187-29.
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Kwaak, Johannes. Rotary piston engine. 3,441,007, 4-29-69, Cl. 123-8.
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Kwap, Theodore W.; and Ruoff, Carl E., to International Business Machines Corporation. Apparatus for indicating response of a test circuit to an applied pulse. 3,431,490, 3-4-69, Cl. 324-57.
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Kydd, Paul H., to General Electric Company. Liquid cooled turbine rotor. 3,446,482, 5-27-69, Cl. 253-39.15
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Laakso, Oliver Armas, to Aktiebolaget Kamyr. Two stage chemical digestion within a single vessel with wash between stages. 3,425,898, 2-4-69, Cl. 162-19.
Laakso, Oliver Armas, to Aktiebolaget Kamyr. Method for continuous cellulose digestion utilizing two temperature zones. 3,445,328, 5-20-69, Cl. 162-19.
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La Barge, Robert L., to Aluminum Company of America. Protective closure for battery terminal. 3,473,965, 10-21-69, Cl. 136-169.
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La Bate, Michael Donald. Hot top for ingot molds. 3,447,772, 6-3-69, Cl. 249-197.
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La Bissoniere, Robert L., to Alpana Aluminum Products, Inc. Insulated metal frame and sliding closure. 3,462,884, 8-26-69, Cl. 49-404.
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Lafferty, John J.; and Zirkle, Charles L., to Smith Kline & French Laboratories. Phenylpiperazinylalkylsulfamides. 3,455,927, 7-15-69, Cl. 260-268.
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Lagani, Anthony, Jr., to Esso Research and Engineering Company. Safe space heater utilizing semisolid petroleum fuels. 3,471,243, 10-7-69, Cl. 431-88.
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Lagasse, Joseph Louis; Palardy, Jacques; Greenlay, John E.; Guimond, Jean P.; and Toussaint, Marcel, to Northern Electric Company Limited. Cut-off and inserting tool. 3,485,432, 12-23-69, Cl. 227-97.
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Lagergren, Richard E., to International Business Machines Corporation. Expanding paper tape take-up spool. 3,442,465, 5-6-69, Cl. 242-72.
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Laguilharre, Pierre Robert. Equipment for drying by spray atomization. 3,423,843, 1-28-69, Cl. 34-57.
LaGuilharre, Pierre Robert. Method for regulating concentration in evaporators, in particular in multiple-effect evaporators. 3,469,616, 9-30-69, Cl. 159-47.
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Lahav, Noam, to Yissum Research Development Company. Game board and playing pieces for a game adapted to teach chemistry. 3,423,093, 1-21-69, Cl. 273-135.
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Lahm, William J.; Wilton, Peter; and Egan, Walter, to Union Carbide Corporation. Thermoplastic wrapping materials having translucent areas and process therefor. 3,423,274, 1-21-69, Cl. 161-6.
Lahnston, Frank C., to Celus Fasteners, Inc. Rivet setting tool. 3,426,572, 2-11-69, Cl. 72-391.
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Lawrence, Franklin I. L.; and Pohorilla, Michael J., to Kendall Refining Company. Organic suspending medium and composition. 3,455,829, 7-15-69, Cl. 252-31.
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Lawrence, Sidney J. Music-note indicator. 3,429,217, 2-25-69, Cl. 84-471.
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Lloyd, Robert H.F., to International Business Machines Corporation. Method for simultaneously forming a buried layer and surface connection in semiconductor devices. 3,479,233, 11-18-69, Cl. 148-174.

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Lloyd, Roger V., to Pittsburgh Activated Carbon Company. Removing contaminants from cigarette smoke. 3,424,168, 1-28-69, Cl. 131-10.9

Lloyd, Ronald: *See—*
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Lloyd, Sheldon G., to Fisher Governor Company. Piezoelectric transducer. 3,456,669, 7-22-69, Cl. 137-84.

Lloyd, Wayne B., to Westinghouse Electric Corporation. Manipulator apparatus. 3,422,965, 1-21-69, Cl. 214-1.

Lloyd, Wayne B., to Westinghouse Electric Corporation. Hydraulic undersea manipulator apparatus. 3,440,825, 4-29-69, Cl. 61-69.

Lloyd, William A.; and Sweet, Richard G., to Varian Associates. Graphic recorder apparatus having means for printing an elapsed time code on the recording. 3,454,953, 7-8-69, Cl. 346-23.

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Lloyd, William Gilbert, to Lummus Company, The. Oxidation of olefinic compounds. 3,475,461, 10-28-69, Cl. 260-347.8

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Lo Casale, Thomas Michael, to Sperry Rand Corporation. Two phase parametron system. 3,437,830, 4-8-69, Cl. 307-88.

Lo Duca, Thomas S. Keyboard organization. 3,447,414, 6-3-69, Cl. 84-436.

Lo Presti, Roy F.; and Ogden, Charles T., to Conco Inc., mesne. Conduit cleaning apparatus. 3,451,090, 6-24-69, Cl. 15-104.3

Lo Presti, Samuel J.; and Mohney, Wilfred F., to United States Steel Corporation. Device for aligning door-handling mechanism with a door. 3,451,898, 6-24-69, Cl. 202-248.

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Lobach, Mark Iosifovich: *See—*
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drovich; Kormer, Vitaly Abramovich; Krol, Vladimir Alexandrovich; Lobach, Mark Iosifovich; Mushina, Evgenia Aronovna; Parfenova, Gali Alexandrovna; Romanova, Stepanida Trofimovna; Sakharova, Elena Vladimirovna; Tinyakova, Elena Ivanovna; and Sharaev, Oleg Konstantinovich,3,468,866.
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Locatelli, Giovanni, to Gebruder Buhler AG. Device for transferring work supporting rods between endless conveyors. 3,472,354, 10-14-69, Cl. 198-25.
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Lockrem, Quentin Matthew. Wheel balancer. 3,420,108, 1-7-69, Cl. 73-480.

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Lockwood, Leon J., to Holley Carburetor Company. Ice condition detecting device. 3,434,347, 3-25-69, Cl. 73-336.
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Lode, Tenny D., to Rosemount Engineering Company. Radio direction measurement system and method. 3,453,627, 7-1-69, Cl. 343-121.
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Lodrini, Albert C. Device for narrowing the diameter of a finger ring. 3,483,718, 12-16-69, Cl. 63-15.6
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Loev, Bernard, to Smith Kline & French Laboratories. Oxadiazaspiro [4.5] decane compounds. 3,481,942, 12-2-69, Cl. 260-294.7
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Loev, Bernard; and Wilson, James W., to Smith Kline & French Laboratories. 4-(4-Chloro-3-sulfamoylphenyl)-1,4-dihydropyridines. 3,455,939, 7-15-69, Cl. 260-294.8
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Logan, Richard W., to Packers Development Corporation. Combined blade guard and depth gage for a portable radial saw. 3,468,350, 9a23-69, Cl. 143-43.
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Lohmeyer, W Carl. Foldable coaster and handle device for use with can-like containers. 3,443,829, 5-13-69, Cl. 294-32.
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Lohr, Alfred; Hemmann, Helmut; and Tropp, Karl, to Burger Eisenwerke Aktiengesellschaft. Roasting and broiling apparatus. 3,435,754, 4-1-69, Cl. 99-341.
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Lohr, Jerome J., to United States of America, National Aeronautics and Space Administration. Variable stiffness polymeric damper. 3,430,902, 3-4-69, Cl. 248-18.
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Lohrmann, Dieter R., to United States of America, Army. Power amplifier for amplitude modulated transmitter. 3,486,128, 12-23-69, Cl. 330-40.
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Lohse, Hardy Gotthard, to St. Regis Paper Company. Process for producing delayed-tack adhesive compositions and coating sheet materials therewith. 3,447,954, 6-3-69, Cl. 117-122.
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Loir, Yvon Henri Arthur. Process for storing a gas in a coal mine. 3,462,957, 8-26-69, Cl. 61-0.5
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Lokey, Burke P., to Westvaco Corporation. Machine and method for making leak-proof paper bags. 3,470,796, 10-7-69, Cl. 93-13.
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Lokken, Albert. Drain attachment for flexible cover for boats. 3,475,772, 11-4-69, Cl. 9-1.
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Lombard, Daniel L., to Lombard Corporation. Tube reducing apparatus. 3,436,944, 4-8-69, Cl. 72-208.
Lombard, Daniel L., to Lombard Corporation. Hydraulic press. 3,482,429, 12-9-69, Cl. 72-450.
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Lombardi, Jose C. Broiling utensil. 3,483,816, 12-16-69, Cl. 99-421.
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Lombardy, Joseph B. Railway boxcar journal lubricator. 3,434,764, 3-25-69, Cl. 308-85.
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Lomolino, Paul A. Liquid level indicating element. 3,448,618, 6-10-69, Cl. 73-327.
Lomolino, Paul A. Drain valve construction. 3,460,561, 8-12-69, Cl. 137-247.13
LoMonaco, Sergio; Melacini, Paolo; Borsini, Giancarlo; Magagnin, Luigi Ciligot; and Visani, Francesco, to Chatillon Societa Anonima Italiana per le Fibre Tessili Artificiali S.p.A. Process for the low-temperature homopolymerization and copolymerization of vinyl chloride. 3,476,727, 11-4-69, Cl. 260-92.8
Lonadier, Frank D.; Brown, Willard B.; Fushimi, Fred C.; and Silver, Gary L., to United States of America, Atomic Energy Commission. Ion exchange method for preparing metal oxide microspheres. 3,438,749, 4-15-69, Cl. 23-344.
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London, Alvin B.; and Winkler, Julius G., to Creative Research Corporation, mesne. Method and apparatus for making sandals and other open top shoes. 3,474,477, 10-28-69, Cl. 12-142.
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Long, Bernard, to Libbey-Owens-Ford Company. Manufacture of a continuous glass sheet on a molten metal bath. 3,445,213, 5-20-69, Cl. 65-65.
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Long, Robert B.; and Knarr, Warren Alfred, to Esso Research and Engineering Company. Process for separating olefins from admixtures with high porosity cuprous halide salts. 3,437,712, 4-8-69, Cl. 260-681.5
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Louthan, Rector P., to Phillips Petroleum Company. Plasticized sulfur compositions. 3,434,852, 3-25-69, Cl. 106-19.
Louthan, Rector P., to Phillips Petroleum Company. Preparation of amino-substituted sulfoxides and sulfones. 3,472,898, 10-14-69, Cl. 260-583.
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Louvel, Bernard, to Societe Nationale des Petroles d'Aquitaine. Automatic control of the base line in the utilization of variable electrical response. 3,460,035, 8-5-69, Cl. 324-103.
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Louviere, Allen J.; and Nicholson, Leonard S. Underwater survey. 3,447,124, 5-27-69, Cl. 340-4.
Louw, Johan A. Desalination method and apparatus with plural vaporization chambers containing shallow layers of liquid. 3,440,146, 4-22-69, Cl. 203-11.
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Love, John A., III; and Sizelove, John R., to United States of America, Air Force. High ohmic semiconductor tuned narrow bandpass barrier photodiode. 3,435,236, 3-25-69, Cl. 250-211.
Love, John A., III; and Sizelove, John R., to United States of America, Air Force. Low ohmic semiconductor tuned narrow bandpass barrier photodiode. 3,452,204, 6-24-69, Cl. 250-211.
Love, John D.; and Bason, George S., Jr., to Love Tractor Sales, Inc. Tobacco harvesting machine. 3,453,018, 7-1-69, Cl. 296-5.
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Love, Robert B., to Amsted Industries Incorporated. Railway car and truck roll stabilizer. 3,459,139, 8-5-69, Cl. 105-199.
Love, Robert G., to Halliburton Company. Temperature compensating system for density meters. 3,431,785, 3-11-69, Cl. 73-434.
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Lovegreen, Alan Trevor. Classification of granular materials. 3,444,998, 5-20-69, Cl. 209-159.
Lovegreen, Alan Trevor. Classification of granular materials. 3,482,691, 12-9-69, Cl. 209-156.
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Lovell, Clarence Anding. Alarm system connected to a telephone subscriber's circuit so as to transmit an alarm through the central office without interfering with normal telephone operation. 3,484,553, 12-16-69, Cl. 279-2.
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Lovingham, Joseph J., to Thiokol Chemical Corporation. Control for adjusting proportions of bi- propellants. 3,433,022, 3-18-69, Cl. 60-258.
Lovingham, Joseph J., to Thiokol Chemical Corporation. Rocket thrust nozzle. 3,481,543, 12-2-69, Cl. 239-127.3
Lovingham, Joseph J.; and Kircher, Hartmann J., III, to Thiokol Chemical Corporation. Missile and powerplant. 3,482,404, 12-9-69, Cl. 60-259.
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Lowe, Warren, to Chevron Research Company. Alkenyl succinimide-antimony dithiophosphate combinations in lubricants. 3,428,563, 2-18-69, Cl. 252-32.7
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Ludwig, Carl, to McDowell-Wellman Engineering Company. Swell control for bucket ladder. 3,432,043, 3-11-69, Cl. 214-14.
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Ludwig, Herbert P. Apparatus for the manufacture of shoes. 3,444,590, 5-20-9, Cl. 18-30.
Ludwig, Herbert. Apparatus for making footwear with bottoms applied by injection molding. 3,425,094, 2-4-69, Cl. 18-30.
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Ludwig, Lawrence P., to United States of America, National Aeronautics and Space Administration. Foil seal. 3,466,052, 9-9-69, Cl. 277-25.
Ludwig, Robert L.; and Rusling, George Roy, to Gulf Oil Corporation. Spring winding machine. 3,423,980, 1-28-69, Cl. 72-142.
Ludwig, Urban W., to General Precision Systems, Inc. Optical insetting. 3,439,982, 4-22-69, Cl. 353-34.
Ludwig, Urban W., to Singer-General Precision, Inc. Optical projection system. 3,458,252, 7-29-69, Cl. 353-69.
Ludwig, Walter D., to Mac Valves, Inc. Balanced rotary solenoid valve. 3,456,689, 7-22-69, Cl. 137-625.65
Ludwig, Walter D., to MAC Valves, Inc. Cam operator. 3,469,461, 9-30-69, Cl. 74-107.
Ludwig, Walter D., to MAC Valves, Inc. Solenoid operated valve. 3,469,600, 9-30-69, Cl. 137-596.17
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Ludwig, Walter, to Pentapco, Inc. Method for bonding a plastic foam pad onto, and without warping, a heat-warpable thermoplastic body member. 3,473,991, 10-21-69, Cl. 156-306.
Ludwig, Warren B.; Elerath, Byron E.; and Ewald, John F., Jr., to General Foods Corporation. Tubular freeze-drying condenser. 3,443,324, 5-13-69, Cl. 34-92.
Ludwig, Wilbur G.; and Zimmer, Richard C., to Bartelt Engineering Company, Inc. Machine for packaging articles in a controlled atmosphere. 3,430,414, 3-4-69, Cl. 53-79.
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MacBeth, Albert W., to Thiokol Chemical Corporation. Liner for solid propellant rocket motor. 3,446,018, 5-27-69, Cl. 60-39.47
MacBeth Corporation: *See—*
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Mac Bride, Hugh: *See—*
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MacCabe, Bernard S., to Dravo Corporation. Stabilized effluent trough for settling tanks of a continuous flow sewage treatment plant. 3,447,688, 6-3-69, Cl. 210-242.
Maccherone, Lawrence, to Roto American Corporation. Machine for automatically placing bags on a wicket. 3,462,026, 8-19-69, Cl. 214-8.
Macchi, Anselmo J.: *See—*
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Macchi, Eugene E. Containers. 3,462,064, 8-19-69, Cl. 229-29.
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Maeder, Paul F.; and Cometta, Carl, 3,457,782.
MacCoon, Richard P. Hand engageable plastic coated part. 3,468,188, 9-23-69, Cl. 74-552.
MacCracken, Calvin D., to Calmac Manufacturing Corporation. Life-supporting and property protecting firefighting process and apparatus. 3,438,445, 4-15-69, Cl. 169-1.
Mac Cragh, Adolfo; Sanchez, Moises G.; and Smith, Jean G., to Grace, W. R., & Co. Method of preventing reversion in the preparation of ammonium phosphates by the addition of vermiculite. 3,431,097, 3-4-69, Cl. 71-43.
MacCrea, Richard S., to Marquette Corporation. Apparatus for automatically determining and setting length of charging time. 3,483,460, 12-9-69, Cl. 320-31.
Mac Curdy, William K.: *See—*
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MacDermid Incorporated: *See—*
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Mac Dermid Incorporated: *See—*
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MacDonald, Donald Francis, to International Nickel Company, Inc., The. Process of coating metal castings. 3,450,189, 6-17-69, Cl. 164-95.
MacDonald, Donald M., to Canadian International Paper Company. Cellulose-sulfur composition which resists chain shortening. 3,464,840, 9-2-69, Cl. 106-162.
MacDonald, Douglas Blake. Electrical receptacle cover. 3,434,618, 3-25-69, Cl. 220-24.2
MacDonald, Francis X.: *See—*
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MacDonald, Hugh D., Jr.; and Bagwell, Richard H., to United States of America, Army. Rocket catapult. 3,447,767, 6-3-69, Cl. 244-122.
MacDonald, Hugh D., Jr.; DeStefano, Leonard A.; and DeLeo, James M., to United States of America, Army. Aircraft seat ejection system. 3,421,720, 1-14-69, Cl. 244-122.
MacDonald, John Kenneth: *See—*
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MacDonald, Paul M., to PX Industries, Inc. Shelf anchor. 3,471,111, 10-7-69, Cl. 248-235.
MacDonald, Paul M.; and MacDonald, Francis X., to PX Industries, Inc. Combination shelf support and anchor. 3,471,112, 10-7-69, Cl. 248-239.
Mac Donald, Raymore D., to Westinghouse Air Brake Company. Road widening trencher-loader unit. 3,419,975, 1-7-69, Cl. 37-8.
MacDonald, Raymore D., to Westinghouse Air Brake Company. Tow-type two-wheeled vibratory trench roller apparatus. 3,427,940, 2-18-69, Cl. 94-50.
MacDonald, Robert D., to Cardinal of Adrian, Inc. Door hinge with means for urging toward a predetermined position. 3,460,190, 8-12-69, Cl. 16-189.
MacDonald, Theodore, to United Shoe Machinery Corporation. Shoe lasting machines. 3,452,377, 7-1-69, Cl. 12-12.4
MacDonald, Ward D., to Michigan Foundry Supply Company. Metal briquette compacting method and machine therefor. 3,450,529, 6-17-69, Cl. 75-211.
Macdonald, Warren E., to Summerhayes Holdings Limited, mesne. Sealing head. 3,434,908, 3-25-69, Cl. 156-514.
MacDonald, William D.: *See—*
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MacDonnell, Robert W.: *See—*
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MacDougal, John G., to General Electric Company. Dynamoelectric machine stator core baffle. 3,461,330, 8-12-69, Cl. 310-59.
MacDougall, Ian Campbell; and Taylor, John Logan, to Allied Ironfounders Limited. Pellet dispensing apparatus. 3,422,991, 1-21-69, Cl. 221-232.
MacDowell, James E., to Suttle Corporation. Frequency selective control circuit. 3,450,844, 6-17-69, Cl. 179-84.
MacDowell, John F., to Corning Glass Works. Alpha-and betacristobalite glass-ceramic articles and methods. 3,445,252, 5-20-69, Cl. 106-39.
MacDowell, John F., to Corning Glass Works. Barium Silicate glass-ceramic body and method of making it. 3,467,534, 9-16-69, Cl. 106-39.
Mace, Arthur B., to General Motors Corporation. Illuminated position indicating device. 3,482,542, 12-9-69, Cl. 116-124.
Mace, Eric Arthur Roy, to Die Casting Machine Tools Limited. Die casting machine with means for hydraulically braking plunger retraction. 3,474,854, 10-28-69, Cl. 164-318.
Mace, Harry W., to Aerosol Techniques Incorporated. Aerosol package providing uniform foams. 3,460,714, 8-12-69, Cl. 222-4.
MacEachron, Lendrum A. Convertible stapler. 3,477,628, 11-11-69, Cl. 227-110.
Macek, Warren M., to Sperry Rand Corporation. Ring laser with means for reducing coupling to backscattered waves. 3,480,878, 11-25-69, Cl. 331-94.5
Macek, Warren M., to Sperry Rand Corporation. Ring laser having a quarter wave plate for rotating the plane of polarization of light which is reflected back into the ring from the combining optics. 3,486,130, 12-23-69, Cl. 331-94.5
Macemon, Herbert J., to General Electric Company. Constant current regulator with moving coil transformer. 3,440,519, 4-22-69, Cl. 323-6.
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Maceyka, Joseph G.; O'Kane, Roger J., Jr.; and Kothe, Hans, to Warner & Swasey Company , The. Table assembly. 3,436,998, 4-8-69, Cl. 83-412.
Mac Farland, Gordon F.: *See—*
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Macfarlane, Benedict; and Jones, Charles A., III, to Mobil Oil Corporation. Fractionating tower computer control. 3,463,725, 8-26-69, Cl. 208-358.
MacGeorge, William D., to Honeywell Inc. Photoelectric memory device in which the current through the source is indicative of the remembered signal. 3,439,171, 4-15-69, Cl. 250-205.

MacGilchrist, John: *See—*
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Mac Gregor, Rob Roy: *See—*
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Mach, Otakar. Dual purpose bag-type container. 3,425,539, 2-4-69, Cl. 206-19.5
Macha, August. Device for facilitating self-introduction of medicinal drops in eyes. 3,446,209, 5-27-69, Cl. 128-233.
Macha, Edward A., to Westinghouse Electric Corporation. Submersible motor with stator liner support. 3,444,403, 5-13-69, Cl. 310-86.
Machanian, William V.: *See—*
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Machell, Greville, to Deering Milliken Research Corporation. Modifying keratinic fibers with unsaturated sulfonic acids and blending fibers so modified with fibers having different dye affinity to obtain products which are differentially dyeable. 3,481,682, 12-2-69, Cl. 8-1.
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Machen, James C., to Thiokol Chemical Corporation. Apparatus for cutting a variable or constant lead on a milling machine. 3,463,050, 8-26-69, Cl. 90-11.62
Machen, Valentine. Exerciser for arms and legs. 3,428,312, 2-18-69, Cl. 272-80.
Mac Henry, Carl; Weaver, John A.; and Towell, Gordon D., to Shell Oil Company. Wiped-film evaporator. 3,477,491, 11-11-69, Cl. 159-6.
Macher, Karl, to Schneider, Jos., & Co. Varifocal cinematographic for objective large-frame sizes and including a four-component forward lens group and a four-lens rear group. 3,442,573, 5-6-69, Cl. 350-176.
Macher, Karl, to Schneider, Jos. & Co. Optische Werke. Optically compensated varifocal objective. 3,451,743, 6-24-69, Cl. 350-176.
Macher, Karl, to Jirma Jos Scheider & Co. Four-component varifocal attachment for basic objective. 3,457,003, 7-22-69, Cl. 350-184.
Macher, Karl, to Schneider, Jos., & Co. Varifocal objective with four-component front lens group. 3,486,809, 12-30-69, Cl. 350-184.
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Machinefabriek en Technische Handelsonderneming M.H. van der Graaf N.V.: *See—*
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Zipp, Ottmar; Nickl, Josef; Machleidt, Hans; Keck, Johannes; Kruger, Gerd; Engelhorn, Robert; and Puschmann, Sigfrid,3,470,152.
Machleidt, Hans; and Hartmann, Valentin, to Squibb, E. R., & Sons, Inc., mesne. Fluorinated cyclic keto esters. 3,435,063, 3-25-69, Cl. 260-468.
Machler, Ronald A., to Buxton, Incorporated. Pocket case with flexible money clip. 3,454,069, 7-8-69, Cl. 150-38.
Machlett Laboratories, Incorporated, The: *See—*
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Peyser, Leonard F., 3,448,270.
Varadi, Peter F., 3,463,978.
Machlin, Lawrence J., to Monsanto Company. Improving egg quality in poultry by orally administering androgens. 3,438,783, 4-15-69, Cl. 99-4.
Machlin, Lawrence J., to Monsanto Company. Increasing poultry egg shell thickness by orally administering adrenergic compounds. 3,445,572, 5-20-69, Cl. 424-264.
Machmer, James A., to International Business Machines Corporation. Pneumatically sampled serializer. 3,420,254, 1-7-69, Cl. 137-81.5
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Jager, Rudolf; Macho, Helmut; and Zwiener, Rudolf,3,430,665.
Machol, Richard E., Jr., to Bell Telephone Laboratories, Incorporated. Associative match circuit for retrieving variable-length information listings. 3,448,436, 6-3-69, Cl. 340-172.5
Macholdt, Hans: *See—*
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Machovsky, Vaclav: *See—*
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Machtig, Duane A., to Bank of California, National Association, The. Procedure for sound/image movie film synchronization. 3,429,640, 2-25-69, Cl. 352-5.
Machtig, Duane A., to Bank of California National Association, The. Converter plate. 3,452,663, 7-1-69, Cl. 95-86.
Machulda, James R.: *See—*
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Macielinski, Jerzy Witold, to Birfield Engineering Limited. Flexible seals. 3,468,171, 9-23-69, Cl. 74-18.1
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MacIntyre, Duncan; and Robertson, Ian MacPherson, to National Research Development Corporation. Soil shaping rotor. 3,483,929, 12-16-69, Cl. 172-63.
Macintyre, Ernest C., Jr.; and Hansen, Robert B., to Motorola, Inc. Method and apparatus for adjusting purity. 3,421,043, 1-7-69, Cl. 315-13.
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Mack, Clifford R. Method and apparatus for packaging articles of varying size serially. 3,468,097, 9-23-69, Cl. 53-37.
Mack, Donald E., to Xerox Corporation. Dicode decoder translating dicode or three-level digital data signal into two-level form. 3,461,390, 8-12-69, Cl. 328-119.
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Mack, Ernst, to Goldschmidt, Th., A.G. Process for the continuous production of aqueous ammonium thiosulfate solutions. 3,473,891, 10-21-69, Cl. 23-115.
Mack, Gerry P., to M & T Chemicals Inc., mesne. Sulfur organotin compounds and compositions containing the same. 3,484,406, 12-16-69, Cl. 260-45.75
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Mack, Joseph E. Drawing board attachment. 3,450,071, 6-17-69, Cl. 108-50.
Mack, Jules A., to Superior Continental Corporation, mesne. Cable clamp. 3,471,110, 10-7-69, Cl. 248-74.
Mack, Jules A., to Superior Continental Corporation. Handhole for electrical apparatus adapted for easy knockdown and reassembly. 3,476,867, 11-4-69, Cl. 174-37.
Mack, Kenneth J., to General Motors Corporation. Method of bonding glass fiber reinforced plastic panels to other materials. 3,431,157, 3-4-69, Cl. 156-82.
Mack, Maurice L. Abductor exercising therapeutical appliance. 3,430,955, 3-4-69, Cl. 272-80.
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Mack, Zdenek, to Tesla, narodni podnik. Bridge type demodulator having diodes adjustably operated. 3,436,684, 4-1-69, Cl. 332-47.
Mack, Zdenek, to Tesla, narodni podnik. Bridge type cross demodulator having capacitive reactance branches. 3,436,685, 4-1-69, Cl. 332-47.
Mackal, Henry H.: *See—*
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Mackal, Henry H.; and Bogossian, Armen. Inflation valve having helically wound leaf spring members for producing rotation of the valve. 3,429,338, 2-25-69, Cl. 137-543.23
MacKallor, DeWitt C., Jr., to United States of America, Navy, mesne. Brushless motor/alternator. 3,484,635, 12-16-69, Cl. 310-266.
MacKay, Ian Norton, to Canadian General Electric Company Limited. Nuclear fuel handling system. 3,428,523, 2-18-69, Cl. 176-32.
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MacKellar, Donald G.; Blumbergs, John H.; and von Falkenstei, Rainer, to FMC Corporation. Method of producing organic peroxy acids. 3,462,480, 8-19-69, Cl. 260-502.
Mac Kellar, Donald G.; Blumbergs, John H.; and von Falkenstein, Rainer, to FMC Corporation. Production of organic peroxy acids. 3,485,869, 12-23-69, Cl. 260-502.
MacKellar, Donald; and Joynson, Reuben E., Jr., to General Electric Company. Tin-lead-tin layer arrangement to improve adherence of photoresist and substrate. 3,450,534, 6-17-69, Cl. 96-36.2
Mac Kendrick, Robert G., to Procter & Gamble Company, The. Method of making a porous roll. 3,453,712, 7-8-69, Cl. 29-148.4
Mac Kendrick, Robert G., to Procter & Gamble Company, The. Method of forming display package. 3,485,007, 12-23-69, Cl. 53-29.
MacKenzie, Alexander K.; MacKenzie, Lloyd D.; and Pottinger, George C., to Torlo International Limited. Centrifugal cleaning of paint brushes and the like. 3,467,400, 9-16-69, Cl. 279-1.
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Mackenzie, Neil J.; and Neathery, William D., to Bell Aerospace Corporation. Rotor mounting. 3,457,997, 7-29-69, Cl. 170-160.58
Mackenzie, Robert A., to Cyril Bath Company, The. Stretch wrapping fixture and combination thereof with drawing dies and press. 3,452,573, 7-1-69, Cl. 72-296.
Mackenzie, Robert A., to Cyril Bath Company, The. Stretch-draw multi-press machine. 3,452,574, 7-1-69, Cl. 72-297.
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Mackey, Donald G.; and Rychlewski, Thaddeus V., to Sylvania Electric Products, Inc. White balance control for color television receiver. 3,457,362, 7-22-69, Cl. 178-5.4
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Mackey, Robert W.; and Morgan, William J., to Owens-Illinois, Inc., mesne. Electrostatic method for decorating glass and vitreous enamels for use therein. 3,437,504, 4-8-69, Cl. 117-17.5
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Mackie, John K. P., to Mackie, James, & Sons Limited. Winding apparatus. 3,482,795, 12-9-69, Cl. 242-54.4
Mackie, John Kay Pringle, to Mackie, James, & Sons Limited. Method and apparatus for winding yarn. 3,449,901, 6-17-69, Cl. 57-71.
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Mackie, William L., to United States of America, Army. Corrosion prevention device and method. 3,470,787, 10-7-69, Cl. 85-53.
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Mador, Irving L.; and Scheben, John A., to National Distillers and Chemical Corporation. Reaction of allylic halides in the vapor phase with carbon monoxide to form 3-enoyl halides. 3,423,456, 1-21-69, Cl. 260-544.

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Mahlstedt, Henry; Dunn, James W.; Couch, Robert W.; and Seyb, Edgar J., Jr., to M & T Chemicals Inc. Method of electrodepositing duplex micro- crack chromium. 3,461,048, 8-12-69, Cl. 204-41.
Mahncke, William H., to Kliklok Corporation. Method and device for packaging pouches with soft contents in folding boxes. 3,453,800, 7-8-69, Cl. 53-29.
Mahncke, William H., to Kliklok Corporation. Method and device for bonding the sealing flap of a hinge-cover folding box. 3,465,490, 9-9-69, Cl. 53-38.
Mahnken, George R. Envelope attaching apparatus and method. 3,465,411, 9-9-69, Cl. 29-407.
Mahnken, Henry, to Millmaster Onyx Corporation. Process for producing amine oxides. 3,432,555, 3-11-69, Cl. 260-583.
Mahnken, Henry, to Millmaster Onyx Corporation. Process for producing amine oxides. 3,463,817, 8-26-69, Cl. 260-583.
Mahnken, Walter J., to Honeywell Inc. Flash intensifier apparatus. 3,444,432, 5-13-69, Cl. 315-227.
Mahnken, Walter J.; Niccore, Fred W.; and Tyler, Tommy N., to Honeywell Inc. Auto record length circuit. 3,458,096, 7-29-69, Cl. 226-43.
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Wichman, Kendall L., 3,422,825.
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Mahoney, James D., to Mobay Chemical Company. Resealable container closure and a process for its manufacture. 3,442,411, 5-6-69, Cl. 215-40.
Mahoney, Kenneth J. Projectile return apparatus. 3,427,026, 2-11-69, Cl. 273-1.5
Mahoney, Lee Robert, to Ford Motor Company. Separation of anthracene-phenanthrene mixtures. 3,458,538, 7-29-69, Cl. 260-385.
Mahoney, Michael, to SCH Corporation. Game apparatus for playing three-dimensional chess and tic-tac-toe. 3,464,701, 9-2-69, Cl. 273-131.
Mahoney, Ralph P., to Beloit Corporation. Air-knife coater. 3,424,126, 1-28-69, Cl. 118-63.
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Maier, Dale E.; and Cwik, Joseph A., to Teledyne, Inc., mesne. Tube bending apparatus parts therefor. 3,457,753, 7-29-69, Cl. 72-154.
Maier, Dale E.; Van Stelle, Richard; and Cwik, Joseph A., to Teledyne, Inc., mesne. Method and apparatus for draw forming tubes and the like including mandrels therefor. 3,456,482, 7-22-69, Cl. 72-465.
Maier, Erwin. Marking apparatus for buttons and buttonholes. 3,442,022, 5-6-69, Cl. 33-190.
Maier, Gary W.; and Jehn, David H., to Dun-Hot, Inc. Packaging machine for filling and closing a receptacle. 3,445,988, 5-27-69, Cl. 53-282.
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Maier, Kurt Maria; Mayer, Viktor; Mortl, Gunther Lorenz; and Skalla, Norbert Franz, to Osterreichisch-Amerikanische Magnesit Aktiengesellschaft. Process for the manufacture of refractory magnesia-chrome and chrome-magnesia products. 3,429,723, 2-25-69, Cl. 106-59.
Maier, Ludwig, to Monsanto Company. Process for preparing quaternary phosphonium halides. 3,432,559, 3-11-69, Cl. 260-606.5
Maier, Ludwig, to Monsanto Company. Alkali aminophosphides and alkaline earth aminophosphides and process of preparation. 3,439,032, 4-15-69, Cl. 260-551.
Maier, Ludwig, to Monsanto Company. Primary alkylene diphosphines and process. 3,484,490, 12-16-69, Cl. 260-606.5
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Maier, Richard, to Siemens Aktiengesellschaft. Method for manufacturing superconductive conductors. 3,468,021, 9-23-69, Cl. 29-599.
Maier, William H.; and Ward, Dennis J., to Universal Oil Products Company. Manufacture of ethylbenzene. 3,478,119, 11-11-69, Cl. 260-671.
Maier, William. Electrical junction boxes. 3,430,799, 3-4-69, Cl. 220-3.94
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Mail, Isaac Paul; and Copple, William E., to Combustion Engineering, Inc. Gas bubble generating and distributing system. 3,446,488, 5-27-69, Cl. 261-77.
Maile, Otto, to Leathercraft Inc. Luggage case. 3,448,838, 6-10-69, Cl. 190-49.
Mailen, Tyson H.; and Stansbury, Roy E., to Phillips Petroleum Company. Protected buried material and method of protecting same. 3,448,586, 6-10-69, Cl. 61-72.1
Mailey, Everett A., to Pennsalt Chemicals Corporation. Method of preparing pyridines. 3,428,640, 2-18-69, Cl. 260-290.
Maillard, Bernard, to Brevets Aero-Mecaniques S.A. Automatic firearm with breech mechanism unlocked by the recoiling barrel. 3,437,006, 4-8-69, Cl. 89--169
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Maillard, Jacques Georges Albert Eugene; and Vincent, Michel Marius Jean, to Laboratoires Jacques Logeais, Societe Anonyme. Therapy of ammoniacal intoxications by di-L- ornithine α-ketoglutarate. 3,441,650, 4-29-69, Cl. 424-316.
Maillet, Alfred M. A., to La Soudure Electrique Languepin. Method of and device for the abrasive shaping of a workpiece. 3,435,562, 4-1-69, Cl. 51-60.
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Maiman, Theodore H., to Hughes Aircraft Company. Laser systems employing a solid laser material. 3,451,010, 6-17-69, Cl. 331-94.5
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Main, Howard Vern. Rocket engine chamber cooling and injection system. 3,451,223, 6-24-69, Cl. 60-258.
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Mains, David K., to United States of America, Air Force. Stator cooling system for A.C. generator. 3,430,085, 2-25-69, Cl. 310-54.
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Maiques, Ricardo Camilleri. Compound glass for windows. 3,469,348, 9-30-69, Cl. 49-413.
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Glang, Reinhard; and Maissel, Leon I.,3,472,074.
Maissel, Leon I.; and Wilcox, David L., to International Business Machines Corporation. Method of forming a glass filled gap. 3,458,926, 8-5-69, Cl. 29-603.
Maitani, Yoshihisa, to Olympus Optical Co., Inc. Preset mechanism of diaphragm for single lens reflex camera. 3,464,340, 9-2-69, Cl. 95-64.
Maithonis, William C.; and Barlow, Stephen A., to Lockheed Aircraft Corporation. Stored electrical energy circuit with safety interlocks. 3,448,339, 6-3-69, Cl. 317-9.
Maiwurm, Paul S., deceased0 (by Stout, Anna C.0Thompson, Charles S., executor). Machine for making plastic containers. 3,421,179, 1-14-69, Cl. 18-5.
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Maizel, Jacob V., Jr., to Yeshiva University. Method of mechanical fractionation of gels and apparatus for preforming the same. 3,451,629, 6-24-69, Cl. 241-1.
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Majewski, John V., to McGraw-Edison Company. Cable junction. 3,431,539, 3-4-69, Cl. 339-103.
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Majewski, Theodore E., to Dow Chemical Company, The. Removal of deposits from process vessels. 3,477,451, 11-11-69, Cl. 134-22.
Majewski, Theodore E.; and Tarkowski, Daniel W., to Dow Chemical Company, The. Preparation of oxydi(p-phenylene isocyanate). 3,449,395, 6-10-69, Cl. 260-453.
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Majkrzak, Charles P., to International Telephone and Telegraph Corporation. Lubricating arrangement for mercury-vapor turbogenerator. 3,447,314, 6-3-69, Cl. 60-36.
Majkrzak, Charles P.; and Polgar, Michael S., to International Telephone and Telegraph Corporation. Power supply system. 3,449,589, 6-10-69, Cl. 290-2.
Majnarich, John J. Process for extracting antiinflammatory and hypocholesterolemic principle from plant sources and the product produced thereby. 3,420,935, 1-7-69, Cl. 424-195.
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Makas, Albert S., to Polaroid Corporation. Birefringent polarizer. 3,438,691, 4-15-69, Cl. 350-157.
Makay, Nicolas. Process for extracting bromelain. 3,455,787, 7-15-69, Cl. 195-66.
Makeham, Sam Robert; Benyon, John; and Shepherd, John Michael, to T.M.M. (Research) Limited. Spinning of textile yarns. 3,455,095, 7-15-69, Cl. 57-34.
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Maker, James H., to Associated Spring Corporation. Method for quickly determining hydrogen embrittlement of metallic parts. 3,455,152, 7-15-69, Cl. 73-87.
Makhlouf, Joseph M., to Mine Safety Appliances Company. Stable diborane diammoniate and method of preparing same. 3,437,456, 4-8-69, Cl. 23-358.
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Makino, Katsuo; and Sawato, Iwao, to Fuji Shashin Film Kabushiki Kaisha. Signal distributing system. 3,475,552, 10-28-69, Cl. 178-7.6
Makino, Shinobu, to Shinko Electric Co., Ltd. Vibrator. 3,479,542, 11-18-69, Cl. 310-81.
Makino, Soichiro. Fishing devices. 3,452,467, 7-1-69, Cl. 43-17.
Makino, Soichiro. Condition responsive device. 3,461,592, 8-19-69, Cl. 43-17.
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Makow, David M., to Canadian Patents and Development, Limited. Displacement measuring device including a spaced four-corner electrode array. 3,479,588, 11-18-69, Cl. 324-61.
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Makowski, Henry S.; and Lynn, Merrill, to Esso Research and Engineering Company. Laminating varnish consisting of low viscosity, curable block copolymer. 3,439,064, 4-15-69, Cl. 260-879.
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Malaby, Davey L., to International Business Machines Corporation. Character size measuring and normalizing for character recognition systems. 3,462,737, 8-19-69, Cl. 340-146.3
Malachowski, Handry J., to Yankee Metal Products Corp. Rear view mirror support bracket. 3,420,490, 1-7-69, Cl. 248-486.
Malakoff, Louis, to Collins Radio Company. FSK receiver wherein one binary signal is represented by a half cycle of a given frequency and the other binary signal is represented by a full cycle of twice that frequency. 3,437,932, 4-8-69, Cl. 325-320.
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Malarkey, Neil, Jr. Filtering means for filter press. 3,453,951, 7-8-69, Cl. 100-118.
Malavasi, Stuart H.; and Miller, Marsden L., to Ranco Incorporated. Burner control apparatus. 3,445,173, 5-20-69, Cl. 431-25.
Malavieille, Louis Henry Lucien. Electric switch wafer assembly. 3,472,985, 10-14-69, Cl. 200-166.
Malbec, Edouard. Universal rotary volumetric-pulsation machine. 3,433,170, 3-18-69, Cl. 103-149.
Malby, Howard S.; Recknagel, Fred M.; and Tobie, Roger S., to Chevron Research Company. High-strength container and container blanks having seamless bottom walls and method of forming same. 3,437,016, 4-8-69, Cl. 93-35.
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Markert, George B., to Firestone Tire & Rubber Company, The. Process and composition of matter. 3,425,986, 2-4-69, Cl. 260-45.75

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Markevitch, Bob V., to Ampex Corporation. Differential light sensing means with one photomultiplier connected to one of the dynodes of the other photomultiplier. 3,463,926, 8-26-69, Cl. 250-207.

Markey, Harold G., to International Business Machines Corporation. Data transmission constant current adapter. 3,458,665, 7-29-69, Cl. 178-68.

Markey, Joseph Thomas, to Gillette Company, The. Apparatus for detection of transverse curvature. 3,465,571, 9-9-69, Cl. 73-37.7

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Markey, Roscoe I., to Teledyne, Inc. Fixed screw joint system. 3,476,010, 11-4-69, Cl. 85-62.

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Markgraf, Andreas G., to Burroughs Corporation. Electrostatic and magnetic recording method. 3,441,938, 4-29-69, Cl. 346-1.

Markgraf, John H.; and Quinn, Herbert, to Procter & Gamble Company, The. Antibacterial composition. 3,485,919, 12-23-69, Cl. 424-322.

Markham, Aaron E.; and Blackmore, Kenneth A. E., to Georgia-Pacific Corporation. Process for treating sulfonated lignin-containing material and product thereof. 3,476,740, 11-4-69, Cl. 260-124.

Markham, Harold A. Surgical clamp. 3,446,211, 5-27-69, Cl. 128-322.

Markham, James D.; and Sanders, Charles R., to Western Electric Company, Incorporated. Winding apparatus. 3,451,633, 6-24-69, Cl. 242-9.

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Markotan, Robert J., to Acme Abrasive Co. Abrasive composition with limestone as the porosity-inducing agent. 3,476,537, 11-4-69, Cl. 51-296.

Markovitz, Meyer. Artificial glomerulus and a method for treating blood. 3,483,867, 12-16-69, Cl. 128-214.

Markowitz, Isral J. Safety aerosol cover cap. 3,462,045, 8-19-69, Cl. 222-182.

Markowitz, Jerome, to Allen Organ Company. Musical instrument with time delay characteristics. 3,453,371, 7-1-69, Cl. 84-1.01

Markowitz, Jerome; Griffith, Errol Robert; and Wetherhold, James Richard. Electronic musical apparatus. 3,445,579, 5-20-69, Cl. 84-1.24

Markowitz, Seymour; and Mayne, David W., to Ampex Corporation. Word drive system for a magnetic core memory. 3,474,419, 10-21-69, Cl. 340-174.

Markowski, Stanley J., to United Aircraft Corporation. Cooling scheme for a three bearing swivel nozzle. 3,429,509, 2-25-69, Cl. 239-127.3

Markowz, Karl Heinz. Space heater and heating units. 3,426,840, 2-11-69, Cl. 165-131.

Marks, Alfred Finlay; and Brahm, Armin Wolfgang, to American Cyanamid Company. Method for deodorizing O,O-dialkyl S- alkylthio)alkyl phosphorodithioates. 3,439,071, 4-15-69, Cl. 260-989.

Marks, Alfred R., Jr. Full bore directional drilling tool. 3,477,524, 11-11-69, Cl. 175-82.

Marks, Alvin M. Multiple iris raster. 3,451,742, 6-24-69, Cl. 350-160.

Marks, Alvin M. Electrically charged spray-condenser for recovering water distillate. 3,455,790, 7-15-69, Cl. 202-185.

Marks, Alvin M. Gas flywheel power converter. 3,456,135, 7-15-69, Cl. 310-11.

Marks, Alvin M.; and Marks, Mortimer M. Photopic and scotopic 3-dimensional viewing system. 3,445,153, 5-20-69, Cl. 350-144.

Marks, Barnard M., to Du Pont de Nemours, E. I., and Company. Boron trifluoride-hydrogen fluoride catalyzed synthesis of poly (aromatic ketone) and poly (aromatic sulfone) polymers. 3,441,538, 4-29-69, Cl. 260-49.

Marks, Bruce G., to Philco-Ford Corporation. Flaw detection and marking system. 3,445,672, 5-20-69, Cl. 250-219.

Marks, Bruce G., to Philco-Ford Corporation. Color CRT assembly. 3,461,342, 8-12-69, Cl. 315-13.

Marks, Bruce G.; and Revesz, George, to Philco-Ford Corporation. Non-circular rotary scanning means. 3,441,334, 4-29-69, Cl. 350-7.

Marks, Charles A. Emergency traction cleat for tires. 3,473,592, 10-21-69, Cl. 152-213.

Marks, Dorothy J. Collapsible, inflatable, disposable bed pan. 3,464,066, 9-2-69, Cl. 4-113.

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Marley, David J., to Garrett Corporation, The. Hydrodynamic shaft bearing. 3,434,762, 3-25-69, Cl. 308-9.
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Marosi, Gilbert; and Soderquist, Donn W., to Singer-General Precision, Inc. Vehicle presence detector system. 3,451,041, 6-17-69, Cl. 340-38.
Marotta, Nicholas G.; and Bell, Harvey, to National Starch and Chemical Corporation. Method of preparing pregelatinized starch compositions. 3,464,857, 9-2-69, Cl. 127-71.
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Marotta, Nicholas G.; Trubiano, Paolo C.; and Ronai, Kenneth S., to National Starch and Chemical Corporation. Pulpy textured food systems containing inhibited starches. 3,443,964, 5-13-69, Cl. 99-83.
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Marquis, David M., to Chevron Research Company. Straight-chain alkyl aryl sulfonate detergent compositions. 3,446,743, 5-27-69, Cl. 252-161.
Marquis, David M., to Chevron Research Company. Sulfosuccinate salt solubilization of fumaric acid. 3,470,213, 9-30-69, Cl. 252-363.5
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Marrable, Christopher David, to Imperial Chemical Industries Limited. 4-N-Alkyl-N-[β-(β'-phthalimido ethoxy) ethyl]amino-τ,τ-dicyanostyrenes. 3,483,218, 12-9-69, Cl. 260-326.
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Martin, George J., to Parker-Hannifin Corporation. Relief-makeup check assembly for directional control valves. 3,460,567, 8-12-69, Cl. 137-596.
Martin, George J.; and Stacey, Hugh J., to Parker-Hannifin Corporation. Directional control valve. 3,426,647, 2-11-69, Cl. 91-29.
Martin, George Roy; and Botting, John Robert, to Martin & Botting Developments Limited. Hydraulically operable drive means. 3,485,038, 12-23-69, Cl. 60-22.
Martin, George, to American Standard Inc. Method for forming liquid heat exchange piping system. 3,463,691, 8-26-69, Cl. 156-294.
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Martin, Gustav J., deceased0 (by Martin, Dorothy Patricia; administratrix), to Rorer, William H., Inc. Antitussive-enzyme composition containing bromelain. 3,457,345, 7-22-69, Cl. 424-94.
Martin, Hans: *See—*
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Martin, Harold E., to Robertson, H. H., Company. Prefabricated panel unit. 3,420,029, 1-7-69, Cl. 52-594.
Martin, Harold W., to Westinghouse Electric Corporation. Coffee maker. 3,430,232, 2-25-69, Cl. 340-417.
Martin, Harry C., to Dore, Louis A., Jr. Pool cleaner. 3,444,575, 5-20-69, Cl. 15-1.7
Martin, Helmut, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Waterproof cable joint. 3,466,384, 9-9-69, Cl. 174-92.
Martin, Helmut, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Form stabilized wave guides. 3,479,621, 11-18-69, Cl. 333-95.
Martin, Henry; Aebi, Hans; and Ebner, Ludwig, to Ciba Limited. 4-Trifluoromethyl-6,4'-dinitrodiphenyl ethers. 3,420,892, 1-7-69, Cl. 260-612.
Martin, Henry; Duerr, Dieter; Hitz, Hans Rudolf; and von Orelli, Marcus, to Ciba Limited. Method of combatting microorganisms with benzylthioureas. 3,483,296, 12-9-69, Cl. 424-322.
Martin, Hipolito Andres. Rotary variable-discharge pump with radially displaceable vanes and reversible direction of drive. 3,431,861, 3-11-69, Cl. 103-120.
Martin, Ivan Z. Hydroculture grass unit. 3,458,951, 8-5-69, Cl. 47-1.2
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Martin, Jack L. Suspension shock absorber for tree shaking devices. 3,477,216, 11-11-69, Cl. 56-328.

Martin, Jack, to Westinghouse Electric Corporation. Means for centralizing an incandescible coil about the longitudinal lamp axis. 3,486,065, 12-23-69, Cl. 313-271.

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Martin, James B., Jr. Applicator for false eyelashes. 3,478,754, 11-18-69, Cl. 132-1.

Martin, James C.; and Burpitt, Robert D., to Eastman Kodak Company. Fused cycloalkanecyclohexanediones and fused cycloalkanecyclohexenediones. 3,424,763, 1-28-69, Cl. 260-326.5

Martin, James C.; and Gott, Paul G., to Eastman Kodak Company. 2-Methylene-4-thioxo-1,3-oxathian-6-ones and their preparation. 3,442,906, 5-6-69, Cl. 260-327.

Martin, James N., Jr. Rotating shelf oven. 3,425,364, 2-4-69, Cl. 107-60.

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Martin, James. Vehicle ejection seats. 3,424,408, 1-28-69, Cl. 244-122.

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Martin, James. Adjusting mechanism primarily for ejection seats. 3,437,294, 4-8-69, Cl. 244-122.

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Martin, John Christopher; and Smith, Ian Douglas, to United Kingdom Atomic Energy Authority. High-voltage pulse-generating transformers. 3,456,221, 7-15-69, Cl. 336-69.

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Martin, John J., to Pullman Incorporated. Multi-positionable trailer landing gear structure. 3,450,415, 6-17-69, Cl. 280-150.5

Martin, John J., to Pullman Incorporated. Container side loading system and means therefor. 3,454,173, 7--69, Cl. 214-38.

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Martin, John L.; MacKey, Robert J.; and Bower, Warren H., to Beven-Herron, Inc. Releasable lumber sling device. 3,431,011, 3-4-69, Cl. 294-75.

Martin, John R., to Calumet & Hecla, Inc. Device for bending, coiling, or straightening tubing. 3,444,716, 5-20-69, Cl. 72-135.

Martin, John, to Fabricacion de Maquinas. Roll bearing structures for glass making machines. 3,420,651, 1-7-69, Cl. 65-194.

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Martin, John, to Fabricacion de Maquinas. Machinery support. 3,433,615, 3-18-69, Cl. 65-193.

Martin, John, to Fabricacion de Maquinas. Comb-like catch pans for vertical draw sheet glass making machines. 3,438,763, 4-15-69, Cl. 65-165.

Martin, John, to Fabricacion de Maquinas. Rolls for glass drawing machinery. 3,466,722, 9-16-69, Cl. 29-123.

Martin, John, to Fabricacion de Maquinas. Clean-out doors for vertical draw sheet glass making apparatus. 3,477,837, 11-11-69, Cl. 65-168.

Martin, John, to Fabricacion de Maquinas. Drawing and/or annealing rolls for sheet glass making apparatus. 3,484,227, 12-16-69, Cl. 65-356.

Martin, Jon W., to Shell Oil Company. Conjugated diene polymer compositions stabilized with certain hydroxylamines. 3,432,578, 3-11-69, Cl. 260-880.

Martin, Jon W., to Shell Oil Company. Footwear having improved block copolymer foxing adhesion. 3,477,148, 11-11-69, Cl. 36-2.5

Martin, Jon W.; Snyder, John L.; and Himes, Glenn R., to Shell Oil Company. Footwear having improved block copolymer foxing adhesion. 3,473,240, 10-21-69, Cl. 36-4.

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Martin, Merrill D. Rotary die cutter. 3,424,043, 1-28-69, Cl. 83-168.

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Martin, Robert C., to Texas Instruments, Incorporated. Plural emitter type active element memory. 3,436,738, 4-1-69, Cl. 340-173.

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Martin, Robert L., to Gutenlag, Charles E., d/b/a Publication Engineers. Method of forming and mounting relay structures. 3,456,336, 7-22-69, Cl. 29-602.
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Martin, Robert T. Potato storage method. 3,445,246, 5-20-69, Cl. 99-154.
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Martin, Robert W.; and Spears, John R. Hydraulically actuated bucket closing means. 3,479,077, 11-18-69, Cl. 294-70.
Martin, Ronald E. Detachable clear view visor for motor vehicles. 3,476,436, 11-4-69, Cl. 296-95.
Martin, Ronald L.; and Flannery, Robert J., to Standard Oil Company (Indiana). Determination of nitrogen. 3,461,042, 8-12-69, Cl. 204-1.
Martin, Roy A., to Citizens and Southern National Bank, Trustees, Employees' Savings and Profit Sharing trust fund of the. Method and apparatus for simultaneously moving a marking tape and other tape. 3,455,431, 7-15-69, Cl. 197-134.
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Martin, William E. Scraper bowl manipulating apparatus attachable with and operable from an attendant vehicle. 3,427,736, 2-18-69, Cl. 37-129.
Martin, William E. Self-contained scraper bowl assembly adapted for attachment with mobile vehicle. 3,435,547, 4-1-69, Cl. 37-124.
Martin, William E. Vibratory cutting means to supplement earth penetration and movement by earth working equipment. 3,443,327, 5-13-69, Cl. 37-126.
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Martinez, Miguel. Electric cautery. 3,461,874, 8-19-69, Cl. 128-303.17

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Martino, Louis J., to Avanti R & D, Inc. Polarization diversity loop antenna. 3,475,756, 10-28-69, Cl. 343-743.

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Maurice, Jean, to Societe Anonyme Francaise du Ferodo. Clutch and coupling with cooling device. 3,437,183, 4-8-69, Cl. 192-3.33
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Maurya, Ramamurat R.; and Kauzlarich, James J., to Caterpillar Tractor Company. Reciprocating friction bonding apparatus. 3,420,428, 1-7-69, Cl. 228-2.
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Maxfield, Perry L., to Phillips Petroleum Company. N-Allyldinitrosyliron complexes of germanium, tin and lead. 3,448,129, 6-3-69, Cl. 260-429.
Maxfield, Perry L., to Phillips Petroleum Company. Isomerization of cyclic olefinic hydrocarbons. 3,471,581, 10-7-69, Cl. 260-666.
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Maxfield, Perry L., to Phillips Petroleum Company. Production of nitrosyl halides of iron, cobalt, and nickel. 3,481,710, 12-2-69, Cl. 23-356.
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May, Clayton A., to Shell Oil Company. Polyhydroxy-containing unsaturated polyesters and their preparation. 3,432,478, 3-11-69, Cl. 260-78.5
May, Clayton A.; and Badenhop, Charles T., to Shell Oil Company. Process for curing polyepoxides with a polyamine and resulting products. 3,420,794, 1-7-69, Cl. 260-47.
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May, Herbert; Kendall-Smith, Brian John; and Burr, Susannah, to British Industrial Plastics Limited. Polymerisation process. 3,474,074, 10-21-69, Cl. 260-73.
May, Herbert; Kendall-Smith, Brian John; and Burr, Susannah, to British Industrial Plastics Limited. Polymerisation process. 3,480,590, 11-25-69, Cl. 260-73.
May, Herbert; Kendall-Smith, Brian John; and Dodd, John Alan, to British Industrial Plastics Limited. Process for the polymerization of trioxan utilizing a fluoroarsenate. 3,451,967, 6-24-69, Cl. 260-67.
May, Herbert; Kendall-Smith, Brian John; Dodd, John Alan; and Instone, Alan Thomas, to British Industrial Plastics Limited. Process for polymerizing cyclic ethers and cyclic acetals with an arsenic-containing catalyst. 3,442,867, 5-6-69, Cl. 260-67.
May, Herbert; Kendall-Smith, Brian John; and Spensley, Robert Hardy, to British Industrial Plastics Limited. Process of preparing tetrahydrofuran-3,3-bis (chloromethyl) oxacyclobutane copolymers. 3,449,267, 6-10-69, Cl. 260-2.
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May, Howard F., to General Electric Company. Combined jet and direct air condenser. 3,423,078, 1-21-69, Cl. 261-138.
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May, Patrick L.; and Ralston, William K., to International Harvester Company. Self-stripping wire twister hook for wire balers. 3,431,837, 3-11-69, Cl. 100-31.
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Mayer, Endre A., to Bendix Corporation, The. Bistable fluid device. 3,456,667, 7-22-69, Cl. 137-81.5
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Mayer, Joseph W. Ring shim having securing insert. 3,483,717, 12-16-69, Cl. 63-15.6
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Mayes, Paul E.; and Grant, Ronald D., to JFD Electronics Corporation, mesne. Log periodic dipole array with dual band directors. 3,466,655, 9-9-69, Cl. 343-792.5
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Mayhue, Luther F., to Phillips Petroleum Company. Alkylation process and vessel combining reaction, catalyst separation and coalescence therein. 3,485,893, 12-23-69, Cl. 260-683.43
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Meyer, Harry W., to Industrial Development Corporation, The, mesne. Process of manufacturing hair rollers. 3,434,193, 3-25-69, Cl. 29-419.

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Mills, John E.; and Getz, Edward J., to Westinghouse Electric Corporation. Protective wrapper for tubular articles such as fluorescent lamps and the like. 3,476,235, 11-4-69, Cl. 206-46.
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Modic, Frank J., to General Electric Company. Low temperature vulcanizing composition and article made therefrom. 3,457,214, 7-22-69, Cl. 260-37.
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Modrak, Thomas M.: *See—*
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Modrey, Henry J. Coupling. 3,460,209, 8-12-69, Cl. 24-211.
Modrey, Henry J. Ratchet-action tool holder. 3,477,486, 11-11-69, Cl. 145-50.
Modrey, Henry John; and Steinmeyer, Gerhard. Dispensing device for singly dispensing magnetizable items. 3,448,894, 6-10-69, Cl. 221-160.
Modrowsky, Fred P.; and Moore, Edward J., to Bendix Corporation, The. Fluid pressure sensing machanism operatively arranged to compensate for changing environmental conditions. 3,444,735, 5-20-69, Cl. 73-182.
Modry, Richard E.: *See—*
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Moe, James E., to Railroad Accessories Corporation. Railroad track or line circuit surge protectors. 3,423,635, 1-21-69, Cl. 317-16.
Moe, James M.: *See—*
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Moe, Oliver M.: *See—*
Hanson, Alan R.; Minks, Paul R.; and Moe, Oliver M.,3,421,865.
Moe, Richard G.; and Sieren, Gerald E., to Allis-Chalmers Manufacturing Company. Plow hitch. 3,454,105, 7-8-69, Cl. 172-446.
Moe, Richard G.: *See—*
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Moeckl, Ernst. Shutter for an electric razor having a cleaning function. 3,447,241, 6-3-69, Cl. 30-41.
Moed, Hendrik Durk; Claasen, Volkert; and van Dijk, Jan, to North American Philips Company, Inc. Secondary 2-aminomethylbenzodioxane derivatives. 3,444,210, 5-13-69, Cl. 260-340.5
Moed, Hendrik Durk; and Paerels, Gerard Bernard, to North American Philips Company, Inc. 1-Amino-4-phenyl-3-buten-2-ols and salts thereof. 3,420,853, 1-7-69, Cl. 260-343.7
Moed, Henrik Durk, to U.S. Philips Corporation, mesne. 3',4'-Dimethoxy-6-[2-(p-methoxyphenyl)-1-alkyl- alkyl-ethylamino]-hexanophenones and the salts thereof. 3,453,328, 7-1-69, Cl. 260-570.5
Moede, Jerome Albert, to Du Pont de Nemours, E. I., and Company. Polyhydroxy-spiro-bis-indane photographic tanning agent. 3,440,049, 4-22-69, Cl. 96-66.
Moedritzer, Kurt: *See—*
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Irani, Riyad R.; and Moedritzer, Kurt,3,438,902.
Moedritzer, Kurt, to Monsanto Company. Direct process for the preparation of organogermanium halides. 3,446,824, 5-27-69, Cl. 260-429.
Moedritzer, Kurt; and Van Wazer, John R., to Monsanto Company. Silicon compounds. 3,466,314, 9-9-69, Cl. 260-448.2
Moedritzer, Kurt; and Van Wazer, John R., to Monsanto Company. Germanium and tin compounds. 3,470,220, 9-30-69, Cl. 260-429.
Moehlenkamp, Donald E., to Conductron Corporation. Control systems. 3,425,445, 2-4-69, Cl. 137-565.
Moehling, Charles, to Amsted Industries Incorporated. Railway truck bolster hydraulically snubbed. 3,438,339, 4-15-69, Cl. 105-197.
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Moeller, August: *See—*
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Moeller, Eugene Charles. Method and apparatus for feeding materials. 3,483,906, 12-16-69, Cl. 146-123.
Moeller, Guido K., to Perkin-Elmer Corporation, The. 10-6 Micron carbon dioxide laser with helium added. 3,464,028, 8-26-69, Cl. 331-94.5
Moeller, John D.; and Hartwig, Robert L., to United States of America, Army, mesne. Vehicle elevation control system. 3,474,707, 10-28-69, Cl. 91-380.
Moeller, R. E.; Love, Robert G.; and Pittman, Forrest C., to Halliburton Company. Method for removing material from the interior of articles. 3,446,667, 5-27-69, Cl. 134-23.
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Moellmann, Heinz, to Avco Corporation. Wide speed range gas power converter. 3,472,487, 10-14-69, Cl. 253-69.
Moen, Alfred M. Tub diverter spout. 3,419,914, 1-7-69, Cl. 4-148.
Moen, Alfred M. Anti-hammer faucet device. 3,428,087, 2-18-69, Cl. 137-625.17
Moen, Alfred M. Handle valve. 3,460,571, 8-12-69, Cl. 137-625.17
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Moffatt, Elbert Marston, to United Aircraft Corporation. Acoustic wave sensor. 3,470,395, 9-30-69, Cl. 310-8.1
Moffatt, John G., to Syntex Corporation. Methylthio methyl phenolic compounds and method of producing same. 3,457,315, 7-22-69, Cl. 260-609.
Moffatt, John G.; and Fenselau, Allan H., to Syntex Corporation. 13,17-Seco-17-nitrile-$\Delta^{13(18)}$ steroids of the androstane and estrane series and the process for the preparation thereof. 3,476,794, 11-4-69, Cl. 260-465.
Moffatt, John G.: *See—*
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Moffett, Robert B., to Upjohn Company, The. 2-Carbamoyl-2-azabicyclo[2.2.2] octanes, and 3-carbamoyl-3- azabicyclo[3.2.2]nonanes. 3,422,092, 1-14-69, Cl. 260-239.
Moffett, Robert B., to Upjohn Company, The. 1,1-Diphenyl-2-methyl-3-alkylideneamino-1- propanols. 3,481,981, 12-2-69, Cl. 260-566.
Moffett, Robert Bruce, to Upjohn Company, The. 1,1-Bis(3,4-methylenedioxyphenyl)-2-methyl-3 (tert-amino) propanols and derivatives thereof. 3,422,120, 1-14-69, Cl. 260-340.5
Moffett, Robert D., to Upjohn Company, The. 1,1-Diphenyl-2-methyl-3-(trimethoxy- benzylamino)-propanols and the salts thereof. 3,467,709, 9-16-69, Cl. 260-570.
Moffett, Robert L. Instrument for determining setting of a lens bevel- edger. 3,457,652, 7-29-69, Cl. 33-200.
Moffitt, Fred L., to United States of America, National Aeronautics and Space Administration. Image magnification adapter for cameras. 3,472,140, 10-14-69, Cl. 95-44.
Mogayzel, John W.; and Adler, Norman, to Little, Arthur D., Inc. Sampling device and methods of preparing and using same. 3,452,601, 7-1-69, Cl. 73-425.4
Mogele, Ludwig, to Siemens Aktiengesellschaft. Method of producing highly pure halogen compounds of gallium and indium. 3,421,844, 1-14-69, Cl. 23-87.
Mogele, Ludwig, to Siemens Aktiengesellschaft. Method of producing highly pure arsenic trichloride. 3,481,698, 12-2-69, Cl. 23-98.
Mogensen, Allan O.; and Naumann, Herbert O., to American Cyanamid Company. Method and apparatus for spinning uniform fibers. 3,436,448, 4-1-69, Cl. 264-176.
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Mogford, Riley F.; and Thurman, Carl C., Jr., to Dow Chemical Company, The. Polyether urethane foams from certain heteric polyethers. 3,461,086, 8-12-69, Cl. 260-2.5
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Mogle, Rodman A., to General Electric Company. Combination electrical, mechanical, and thermal connector assembly. 3,467,891, 9-16-69, Cl. 317-101.
Mognet, Jean; Torello, Manuel S.; and Rius, Carlos C., to Empresa Nacional de Autocamiones, S.A. Braking arrangement. 3,445,141, 5-20-69, Cl. 303-6.
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Mohler, Richard E., to Becton, Dickinson and Company, mesne. Gloves and methods of construction. 3,468,735, 9-23-69, Cl. 156-250.
Mohler, Werner; Reiser, Mario; Popendiker, Kurt; and Von Schuh, Heinz-Georg, to Chemische Werke Albert. Certain oxoalkyldimethylxanthines and a proces for the preparation thereof. 3,422,107, 1-14-69, Cl. 260-256.
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Mohr, Gunther; Erdmann, Dietrich; Niethammer, Konrad; Lust, Siegmund; and Schneider, Gerhart, to Merck, E., A.G. Certain fluorenyl-9-nitrates. 3,452,076, 6-24-69, Cl. 260-466.

Mohr, Gunther; Erdmann, Dietrich; Niethammer, Konrad; Lust, Siegmund; Schneider, Gerhart; and Jacobi, Ernst, to Merck, E., A.G. Composition for retarding plant growth. 3,476,545, 11-4-69, Cl. 71-76.

Mohr, Gunther; Niethammer, Konrad; Lust, Sigmund; and Schneider, Gerhart, to Merck, E., A.G. 2,6-Dichloro-3,5-dicyano-4-aryl pyridines. 3,468,895, 9-23-69, Cl. 260-294.9

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Burger, Heinz; Mohr, Heinrich; Priebe, Edmund; Reuter, Lothar; and Weber, Heinz,3,441,524.

Mohr, Max C., to Raytheon Company. Reciprocal digital latching ferrite phase shifter wherein adjacent ferrite elements are oppositely magnetized. 3,425,003, 1-28-69, Cl. 333-31.

Mohr, Robert, to Societe Genevoise d'Instruments de Physique. Hydrostatic sustaining device. 3,482,650, 12-9-69, Cl. 184-5.

Mohr, Rudolf. Folding work table for paper cutting machines. 3,464,303, 9-2-69, Cl. 83-648.

Mohr, Rudolf. Rotary saddle for a paper cutting machine. 3,470,778, 10-7-69, Cl. 83-365.

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Mohrbacher, Richard J., to McNeil Laboratories, Inc. Certain 4-diloweralkylamino-lower alkyl-5-pyridyl (or phenyl)-2,3-dihydro-1-benzothiepins and derivatives thereof. 3,444,176, 5-13-69, Cl. 260-294.8

Mohrbacher, Richard J.; and Rasmussen, Chris Royce, to McNeil Laboratories, Inc.(R_1-R_2-Hydroxymethyl)-R_3-R_4- hydroxymethyl)-cyclopentadienes. 3,426,032, 2-4-69, Cl. 260-296.

Mohrbacher, Richard Joseph; Meschino, Joseph Albert; and Rasmussen, Chris Royce, to McNeil Laboratories, Inc.2,3(And 1,3)-Di-(R_4-R_5-hydroxymethyl)-6-R_1- 6-R_2-fulvenes. 3,424,757, 1-28-69, Cl. 260-296.

Mohrbacher, Richard Joseph; Poos, George Ireland; and Roszkowski, Adolph P., to McNeil Laboratories, Inc.Rodenticidal compositions containing certain 5- (R-R_1-R_2-methyl)-7-(R_3-R_4-methylene)-(Rb)- 5-norbornene-2,3-dicarboximides. 3,471,619, 10-7-69, Cl. 424-263.

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Mohrhusen, Theodore J., to Fruehauf Corporation. Combination gravity and pneumatic discharge system for hoppers. 3,438,682, 4-15-69, Cl. 302-52.

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Mohring, Gustav; Weber, Arno; Glasz, Eugen G.; and Hagele, Gerhard, to Famatex GmbH, Fabrik fur Textilausrustungsmaschinen. Entering arrangement for fabric tentering machines. 3,482,750, 12-9-69, Cl. 226-19.

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Mohrman, Donald W.; and Avila, Francisco C., to General Electric Company. Method for changing the configuration of and for bonding electrical coils of inductive devices. 3,456,338, 7-22-69, Cl. 29-606.

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Moirano, Arthur L., to Marine Colloids, Inc. Flan-type milk pudding and method and gelling agent for making same. 3,443,968, 5-13-69, Cl. 99-139.

Moirano, Arthur L., to Marine Colloids, Inc. Dessert gel and composition therefor. 3,445,243, 5-20-69, Cl. 99-131.

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Moiso, Ugo; and Papa, Sisto Sergio, to Aziende Colori Nazionali Affini ACNA S.p.A. Cobalt complex monoazo dyestuffs. 3,475,405, 10-28-69, Cl. 260-151.

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Mojonnier, Albert B., to Mojonnier, Albert, Inc. Method and apparatus for making caps. 3,422,522, 1-21-69, Cl. 29-412.

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Mojonnier, Albert B., to Mojonnier, Albert, Inc. Apparatus for trimming plastic preforms. 3,461,761, 8-19-69, Cl. 83-140.

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Molby, Lloyd A., to Eaton Yale & Towne, Inc. Reversing mechanism for industrial vehicle. 3,446,376, 5-27-69, Cl. 214-140.

Molby, Lloyd A., to Eaton Yale & Towne, Inc. Hydraulic steering control for sharp steering. 3,451,498, 6-24-69, Cl. 180-79.2

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Moldavsky, Felix Grigorievich; and Kotelnikov, Anatoly Feofanovich. Glass preserving jars. 3,433,379, 3-18-69, Cl. 215-40.

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Moldovan, Iuliu; and Grudner, Galina M. Method of removing tetrachloride from gases. 3,460,900, 8-12-69, Cl. 23-2.

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Moldovan, Michael T.; Drew, Eugene Hodson, deceased; and Robinson, Sherwood Drew; administrators, to AVM Corporation. Vote record pack print device. 3,430,559, 3-4-69, Cl. 101-269.

Moldovan Velniceriu, Adrian; and Mihaiu, Traian, to Ministerul Industriei Chimice. Process for obtaining parachlorophenylisocyanate. 3,467,689, 9-16-69, Cl. 260-453.

Mole, Cecil J., to Westinghouse Electric Corporation. Direct transfer thermoelectric apparatus. 3,482,411, 12-9-69, Cl. 62-3.

Mole, Maurice Frederick; Jacques, James Keith; and Collins, John Desmond, to Albright & Wilson (Mfg.) Limited. Mono haloalkyl bis-hydroxy oxyalkylene phosphates. 3,442,986, 5-6-69, Cl. 260-953.

Mole, Philip J. Self closing vapor controlling cap. 3,478,922, 11-18-69, Cl. 220-86.

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Molenaar, Charles Richard, to General Electric Company. Electrical protective device. 3,440,580, 4-22-69, Cl. 335-18.
Molenaar, Henri Charles. Reciprocating pumps for use with windshield washers. 3,425,088, 2-4-69, Cl. 15-250.02
Molenaar, Henri Charles. Reciprocating pumps for use with windshield washers. 3,445,881, 5-27-69, Cl. 15-250.02
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Moonan, William; and Skidmore, Richard H., to Sprayon Products, Inc. Apparatus for filling aerosol cans. 3,444,906, 5-20-69, Cl. 141-20.
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Mooney, Walter G.; Dutton, Lloyd K.; and Lynch, Francis K., 3,432,187.
Mooney, Charles W., to Motorola, Inc. Electromechanical frequency responsive translating device. 3,430,171, 2-25-69, Cl. 335-252.
Mooney, Clifford Eugene. Belt sanders. 3,482,358, 12-9-69, Cl. 51-138.
Mooney, David H., to United States of America, Army. Anti-missile mobile search radar. 3,448,452, 6-3-69, Cl. 343-11.
Mooney, Ida May. Headwear. 3,466,665, 9-16-69, Cl. 2-207.
Mooney, James J., Jr.; and Smith, Marion D., to General Motors Corporation. Power train. 3,426,621, 2-11-69, Cl. 74-720.5
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Mooney, John Russell, to Mayfield Laboratories, Inc., mesne. Multiphase linear flow machine for making tampons. 3,465,390, 9-9-69, Cl. 19-144.5
Mooney, Melvin, deceased (by Stevens, Dorothy, executrix); and Mooney, Melvin, deceased. Acoustic panels. 3,427,915, 2-18-69, Cl. 84-275.
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Mooney, Melvin; and Mooney, Melvin, deceased,3,427,915.
Mooney, Paul C., to Quick-Set, Incorporated. Instrument mount. 3,429,543, 2-25-69, Cl. 248-346.
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Mooradian, Aram, to Sterling Drug Inc.Preparation of 5,6,7,8-tetrahydrobenzofuro [2,3-b] pyridines and 1,2,3,4-tetrahydrodibenzofurans. 3,452,033, 6-24-69, Cl. 260-297.
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Moore, Alvin Edward. Fluidfoil ringcraft. 3,431,878, 3-11-69, Cl. 114-66.5
Moore, Alvin Edward. Resiliently flexible vehicle. 3,450,374, 6-17-69, Cl. 244-5.
Moore, Alvin E. Ringplane. 3,443,776, 5-13-69, Cl. 244-5.
Moore, Alvin E.; and Thompson, Willian Ansel. Electrically-fired missile. 3,486,451, 12-30-69, Cl. 102-38.
Moore, Anthony W. Rivet. 3,453,927, 7-8-69, Cl. 85-68.
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Moore, Arthur Ivan Walter; Porter, John Howard; Middle, George Henry; and Vearncombe, Richard Frank. Cutting tools. 3,464,098, 9-2-69, Cl. 29-105.
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Moore, Arthur R., to Minnesota Mining and Manufacturing Company. Zinc oxide maximum efficiency length extensional crystals and devices. 3,471,721, 10-7-69, Cl. 310-9.5
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Moore, Clarence C. Antenna support structure. 3,477,676, 11-11-69, Cl. 248-201.
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Moore, Douglas R., to Rheem Manufacturing Company. Electronic musical instrument. 3,484,529, 12-16-69, Cl. 84-1.01
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Moore, Earl K., Jr. Free piston type plunger. 3,424,066, 1-28-69, Cl. 92-193.
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Moore, Joe D. Suction filtering machine. 3,478,888, 11-18-69, Cl. 210-255.
Moore, John M.; and Motsenbocker, James O., to Phillips Petroleum Company. Uniform cooling of blow molded articles. 3,444,284, 5-13-69, Cl. 264-94.
Moore, John R.; and Dyle, Daniel J., to Monnier Bros., Inc. Air line lubricator. 3,450,229, 6-17-69, Cl. 184-55.
Moore, John; and Wild, John Thomas Henry, to Davy and United Engineering Company Limited. Handling apparatus. 3,458,070, 7-29-69, Cl. 214-301.
Moore, Jonie M. T. Exercising device for attachment to a wheelchair. 3,423,086, 1-21-69, Cl. 272-73.
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Moore, Lawrence A., to Beloit Eastern Corporation. Unwinding stand and arm positioner therefor. 3,424,394, 1-28-69, Cl. 242-58.6
Moore, Lawrence A., to Beloit Eastern Corporation. Adjustable shot roll. 3,438,100, 4-15-69, Cl. 26-63.
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Moore, Leslie D., to Nalco Chemical Company. Method of making polyamides from hydroxy amides. 3,471,451, 10-7-69, Cl. 260-78.
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Moore, Ralph W., to Pangborn Corporation, The. Abrasive blasting apparatus. 3,445,966, 5-27-69, Cl. 51-9.
Moore, Ralph W.; and Brennan, William R., to Mobil Oil Corporation. Blending method and apparatus. 3,433,606, 3-18-69, Cl. 44-2.
Moore, Raymond William, Jr.: *See—*
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Moore, Robert A., to United States of America, Air Force. Gas actuated vapor feed system. 3,439,501, 4-22-69, Cl. 60-203.
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Moore, Robert E., to Sun Oil Company. Dicarbamate derivatives of alkyladamantanes. 3,450,744, 6-17-69, Cl. 260-468.
Moore, Robert F., to Globe Refractories, Inc. Ladle brick. 3,463,649, 8-26-69, Cl. 106-67.

Moore, Robert G., Jr., to Bendix Corporation, The. Fuel control apparatus including put-and-take fuel by-pass valve means for withdrawing controlled percentage of metered fuel. 3,423,930, 1-28-69, Cl. 60-39.28
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Moore, Thomas R., Jr.; and Butler, Florence P., to Technic, Inc. Heavy metal-diamine-gold cyanide complexes. 3,458,542, 7-29-69, Cl. 260-429.
Moore, Thomas Roscoe, Jr.; Graham, Harold Nathanial; and Gurkin, Martin, to Lipton, Thomas J., Inc. Alkaline conversion of green tea. 3,484,246, 12-16-69, Cl. 99-76.
Moore, Thomas William, to American Machine & Foundry Company. Voltage sensitive and harmonic control circuit. 3,484,702, 12-16-69, Cl. 328-116.
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Moore, William A.; Gross, Arthur; and Skei, Edward C., to Whittaker Corporation. Spherical rotary valve. 3,485,475, 12-23-69, Cl. 251-159.
Moore, William Arthur. Vapor engine system. 3,462,951, 8-26-69, Cl. 60-64.
Moore, William B. Methods and apparatus for verifying the output of automatic print readers and for correcting errors introduced by the print reader. 3,439,986, 4-22-69, Cl. 356-71.
Moore, William C.; and Connors, John D., to Welch Allyn, Inc. Unitary light projecting assembly for diagnostic instruments. 3,441,340, 4-29-69, Cl. 351-16.
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Moore, William D. Gas turbine exhaust system. 3,446,274, 5-27-69, Cl. 165-83.
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Moore, William P., Jr.; and Mosier, Jack W., to Allied Chemical Corporation. Dehydrodimerization process and catalyst therefor. 3,435,089, 3-25-69, Cl. 260-680.
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Moore, William P.; and MacGregor, Rob Roy, to Allied Chemical Corporation. Process for the production of phosphoric acid and calcium aluminate. 3,482,933, 12-9-69, Cl. 23-52.
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Moorganov, Boris Petrovich. Apparatus for controlling operation of turbogenerator under emergency conditions in the power system. 3,421,014, 1-7-69, Cl. 290-40.
Moorhead, John G., to United States of America, Army. Electrostatic integrator. 3,443,225, 5-6-69, Cl. 324-76.
Moorhead, William H., Jr.; and Copeland, Henry W., Jr., to Kershaw Manufacturing Co., Inc. Railroad setoff apparatus. 3,443,529, 5-13-69, Cl. 105-177.
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Moriarty, Edward J. Bag opening and emptying machine. 3,447,706, 6-3-69, Cl. 214-305.
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Moriarty, Jerome J., to Eastman Kodak Company. Method of coating using a bead coater. 3,429,741, 2-25-69, Cl. 117-111.
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Morin, Joseph F., to Carter, William, Company, The. Machine for attaching labels and similar articles. 3,482,537, 12-9-69, Cl. 112-104.
Morin, Louis H., to Coats & Clark, Inc. Method of anchoring a monofilament to a plastic injection molding. 3,420,929, 1-7-69, Cl. 264-278.
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Morin, Louis H., to Coats & Clark, Inc. Box and pin separator for fastener stringers. 3,435,489, 4-1-69, Cl. 24-205.11
Morin, Louis H., to Coats & Clark Inc. Apparatus for making magnesium die castings. 3,452,805, 7-1-69, Cl. 164-154.
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Morine, Louis A., to Bendix Corporation, The. Method and electronic system for improving a control signal-to-noise ratio in high noise environment electronic systems. 3,432,761, 3-11-69, Cl. 328-165.
Morine, Richard L., to Food Equipment Development Corporation. Conveyor. 3,474,893, 10-28-69, Cl. 198-129.
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Morita, Motoo. Method of automatically producing leaf springs having an eye at both ends thereof and automatic eye forming machine. 3,453,855, 7-8-69, Cl. 72-296.
Morita, Shigeru; Inoue, Toshio; Eto, Hiromi; and Yoshimitsu, Kenichi, to Yawata Chemical Industry Co., Ltd. Process for the purification of lower olefin gases. 3,456,029, 7-15-69, Cl. 260-677.
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Morita, Tsuneo, to Sony Corporation. Erasing system for magnetic tapes with angularly disposed tracks thereon. 3,478,177, 11-11-69, Cl. 179-100.2
Morita, Yoshio; Watanabe, Takaji; Suzuki, Hisao; and Kawamura, Junji, to Koppers Company, Inc. Nacreous pigment of black pearl tone. 3,459,573, 8-5-69, Cl. 106-291.
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Moritz, Guenther, to Vereinigte Aluminium-Werke Aktiengesellschaft. Method for continuous casting of thin band plates. 3,463,220, 8-26-69, Cl. 164-4.
Moritz, Gunther, to Vereinigte Aluminium-Werke Aktiengesellschaft. Method and apparatus for continuous casting of metal in horizontal direction, especially for continuous casting of thin metal bands, plates, or the like. 3,439,730, 4-22-69, Cl. 164-82.
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Moriuchi, Shigeru, to Japan Atomic Energy Research Institute. Scintillation counter for improving measurement of radiation dose. 3,441,733, 4-29-69, Cl. 250-71.5
Moriwaki, Akira. Combing cylinder of combing machine. 3,419,941, 1-7-69, Cl. 19-234.
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Moriyama, Hiromi; Yamada, Hiroshi; Nakanishi, Tsunemoto; and Kiriyama, Toshikatsu, to Kabushi Kaisha Hitachi Seisakusho, and Keihin Hitachi Engineering Kabushiki Kaisha. Method of making gas-filled enclosed switchgear with copper contacts. 3,443,312, 5-13-69, Cl. 29-622.
Moriyama, Kazuhiro; and Hori, Toshimitsu, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Apparatus automatically controlling the correlation between time and air pressure. 3,429,336, 2-25-69, Cl. 137-487.5
Moriyasu, Hiro, to Tektronix, Inc. Time base generator with automatic rate control. 3,439,282, 4-15-69, Cl. 328-185.
Moriyasu, Hiro, to Tktronix, Inc. Drift compensated direct coupled amplifier circuit having adjustable D.C. output voltage level. 3,441,863, 4-29-69, Cl. 330-9.
Moriyasu, Hiro, to Tektronix, Inc. Monostable comparator circuit. 3,473,044, 10-14-69, Cl. 307-235.
Morizumi, Ichiro; Sato, Yuichiro; and Matsukura, Kiyoshi, to Nisso Seiko Kabushiki Kaisha. Method of manufacturing a cast iron roll. 3,423,250, 1-21-69, Cl. 148-2.
Mork, Alfred N., to Celanese Coatings Company. Decorative coating for hardboard. 3,451,837, 6-24-69, Cl. 117-12.
Mork, Alfred N., to Celanese Coatings Company. Process for applying decorative coating to hardboard. 3,479,197, 11-18-69, Cl. 117-12.
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Morkoski, James, to International Harvester Company. Toothed bar structure for peg tooth harrow. 3,463,242, 8-26-69, Cl. 172-713.

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Morlen, Jon R., to Barber-Colman Company. Stepping servo in which a first transmitter is advanced and a second feedback transmitter follows. 3,454,855, 7-8-69, Cl. 318-31.

Morley, David C. W., to Hydrotrole Limited. Hydropneumatic accumulator. 3,483,893, 12-16-69, Cl. 138-30.

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Morley, Ervin W., 10% to Hammond, Ellane B. Record keeping and viewing device. 3,479,985, 11-25-69, Cl. 116-135.

Morley, Fred W. Continuous hamburger grill. 3,457,853, 7-29-69, Cl. 107-349.

Morley, Henry Barclay; Skrzec, Adam E.; and Shiloff, Jerome C., to Stauffer Chemical Company. Process for producing boric acid from alkali metal borates. 3,454,359, 7-8-69, Cl. 23-149.

Morley, John D., to Newcor, Inc., mesne. Strip positioning and trimming apparatus for a strip end welding machine. 3,475,580, 10-28-69, Cl. 219-82.

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Moro, Antonio, to Soc. per Azioni Fratelli Borletti. Thermally controlled electric switch. 3,453,581, 7-1-69, Cl. 337-349.

Moro, Antonio, to Soc. per Azioni Fratelli Borletti. Sewing machine for straight or zigzag sewing. 3,468,270, 9-23-69, Cl. 112-158.

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Moroe, Tatsuo; Hattori, Staohiko; Komatsu, Akira; and Muraki, Shigeru, to Takasago Perfumery Co., Ltd. Method of improving the flavor of cocoa and chocolate-flavored materials. 3,459,556, 8-5-69, Cl. 99-23.

Moroe, Tatsuo; Komatsu, Akira; Matsui, Takeshi; and Ueda, Kuniaki, to Takasago Perfumery Co., Ltd. Process for the production of a mixture of alicyclic hydroxyaldehydes. 3,433,839, 3-18-69, Cl. 260-598.

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Moroney, William J.; and Chalifour, Henri R., to Microwave Associates, Inc. Semiconductor diodes of the junction type having a heat sink at the surface nearer to the junction. 3,457,471, 7-22-69, Cl. 317-234.

Moroshima, Heiji, to Hitachi, Ltd. Semiconductor device for high frequency and high power use. 3,444,443, 5-13-69, Cl. 317-235.

Moroto, Shuzo; and Kawabe, Tsuneo, to Aisin Seiki Company Limited. Automatic vehicle stop sensing device. 3,469,443, 9-30-69, Cl. 73-121.

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Morozowich, Walter; and Taraszka, Mildred J., to Upjohn Company, The. Process for preparing lincomycin-2-acylates and novel intermediate compounds. 3,426,012, 2-4-69, Cl. 260-210.

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Morren, Henri, to UCB (Union Chimique-Chemische Bedrijven) S.A. N-amino-alkylated heterocyclic compound. 3,423,401, 1-21-69, Cl. 260-239.

Morren, Henri, to UCB (Union Chimique-Chemische Bedrijven)S.A. N-substituted lactams. 3,459,738, 8-5-69, Cl. 260-239.3

Morren, Henri, to UCB (Union Chimique-Chemische Bedrijven) S.A. Derivatives of phenyl-acetic acid. 3,466,321, 9-9-69, Cl. 260-471.

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Morrice, Anthony Ronald Seaton. Trench shoring frame. 3,479,827, 11-25-69, Cl. 61-41.

Morrill, Vaughan, Jr., to Clay-Adams, Inc. Pipette having relatively flat cross-section. 3,441,384, 4-29-69, Cl. 23-292.

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Morris, Albert E., Jr., to Wren Aircraft Corporation. Aircraft yaw correction means. 3,469,807, 9-30-69, Cl. 244-90.

Morris, Albert Earl, Jr., deceased; and Morris, Helen Knox. Reversible pitch propeller control system. 3,446,289, 5-27-69, Cl. 170-160.2

Morris, Alma E., Jr. Trailer hitch. 3,441,291, 4-29-69, Cl. 280-406.

Morris, Alonzo Merril. Automatic feeder. 3,473,696, 10-21-69, Cl. 222-70.

Morris, Alton R.; and McDonald, Thomas M., to Hubbell, Harvey, Incorporated. Ground leakage differential protective apparatus. 3,473,091, 10-14-69, Cl. 317-18.

Morris, Arthur R.; Provencher, Camille L.; and Silverman, Sydney, to Export Corporation of Canada Limited, The. Slider for slide fasteners. 3,426,398, 2-11-69, Cl. 24-205.14

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Morris, David Joseph, to English Electric Company, Limited, The. MAD-R multiaperture core logic system. 3,424,917, 1-28-69, Cl. 307-88.

Morris, David Joseph, to English Electric Company Limited, The. Magnetic logical device. 3,433,973, 3-18-69, Cl. 307-88.

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Morris, Drew W. Christmas tree stand. 3,469,342, 9-30-69, Cl. 47-38.

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Morris, Earl L. Vandalproof, concealed anchor for plumbing fixture. 3,438,065, 4-15-69, Cl. 4-191.

Morris, Earl L. Support and drain construction. 3,438,066, 4-15-69, Cl. 4-288.

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Mueller, Robert S., to Eaton Yale & Towne, Inc. Throttle and brake control apparatus. 3,437,182, 4-8-69, Cl. 192-3.
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Mueller, Robert S.; and Uitvlugt, Martin W., to Eaton Yale & Towne, Inc. Speed control apparatus for an automotive vehicle. 3,481,422, 12-2-69, Cl. 180-108.
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Murdock, Clayton E.; Pugh, Donald J.; and Compton, Robert H. Stromberg-Carlson Corporation Method and means for selecting character inclination in cathode ray tube displays. 3,421,044, 1-7-69, Cl. 315-14.
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Murphy, Helen I. Pie shell shaper. 3,453,948, 7-8-69, Cl. 99-433.
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Murphy, James. Birth control means. 3,464,409, 9-2-69, Cl. 128-129.
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Murphy, Patrick J., Sr.; and Murphy, Patrick J., Jr. Cigarette lighters. 3,438,717, 4-15-69, Cl. 431-137.
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Murphy, Robert A., to General Electric Company. Curing system for room temperature vulcanizing organopolysiloxane elastomers. 3,458,469, 7-29-69, Cl. 260-37.
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Murphy, Robert M.; Holland, John W.; and McDonald, Thomas M., to Hubbell, Harvey, Incorporated. Three-way switch with pilot light controlled by a photocell circuit. 3,440,429, 4-22-69, Cl. 250-215.
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Mutschler, Erich; and Schreiber, Franz, to SWF-Specialfabrik fur Autozubehor Gustav Rau G.m.b.H. Steering post mounted automotive vehicle lamp control switch with slidably adjustable contact control camming and locating means. 3,459,913, 8-5-69, Cl. 200-166.
Mutschler, Otto. Feed bar for fountain pen. 3,423,156, 1-21-69, Cl. 401-240.
Mutschler, William H., Jr.: *See—*
Goodman, Ernest A.; Mutschler, William H., Jr.; and Anderson, John M.,3,443,113.
Weber, Hans J.; and Mutschler, William H.,3,484,727.
Muttart, Vincent H.: *See—*
Deutscher, Abe; Muttart, Vincent H.; and Gilbert, Jack W.,3,432,631.
Muttelsee, Winfried: *See—*
Heyner, Gerhard; Rogowsky, York; Jotten, Robert; Muttelsee, Winfried; and Foerst, Reiner,3,447,066.
Mutter, Charles J., to Boyertown Packaging Service Corporation. Scoring and separating a continuous length of material. 3,456,855, 7-22-69, Cl. 225-96.
Mutter, James F.; and Betts, William S. Tilting-platform playground toy. 3,475,019, 10-28-69, Cl. 272-55.
Mutter, Walter E.: *See—*
Ainslie, Norman G.; Chhabra, Devendra S.; Jepsen, Donald W.; and Mutter, Walter E.,3,474,530.
Barson, Fred; and Mutter, Walter E.,3,465,427.
Mutter, Walter E., to International Business Machines Corporation. Semiconductor device. 3,451,866, 6-24-69, Cl. 148-33.5
Mutter, Walter E.; and Totta, Paul A., to International Business Machines Corporation. Multilevel terminal metallurgy for semiconductor devices. 3,461,357, 8-12-69, Cl. 317-234.
Mutter, Walter F., to Morris, Philip Incorporated. Machine for test smoking cigarettes. 3,433,054, 3-18-69, Cl. 73-28.
Mutter, Walter F.; and Mathe, George L., to Morris, Philip, Incorporated. Apparatus for assembling continuous tubular article from two or more continuous partitubular sections. 3,481,817, 12-2-69, Cl. 156-383.
Mutter, Walter F.; and Watson, Duane C., to Morris, Philip, Incorporated. Apparatus for delivering samples to a gas chromatograph. 3,479,880, 11-25-69, Cl. 73--422,
Mutter, William W.: *See—*
Bennett, William O.; and Mutter, William W.,3,421,310.
Bennett, William O.; and Mutter, William W.,3,421,311.
Mutter, William W.; and Gruner, George P., to Bulova Watch Company, Inc. Day-date calendar timepiece. 3,439,493, 4-22-69, Cl. 58-58.
Mutterer, Heinz Karl, to Prontor-Werk Alfred Gauthier G.m.b.H. Photographic shutter, and more particularly a self-cocking shutter, having one or more reciprocable shutter blades. 3,455,228, 7-15-69, Cl. 95-62.
Mutterer, Heinz Karl, to Prontor-Werk Alfred Gauthier G.m.b.H. Photographic shutter with a brake wheel for exposure time regulation. 3,460,455, 8-12-69, Cl. 95-62.
Muttick, Richard P.; Di Vico, Louis A.; and Kantrowitz, Philip, to Sonotone Corporation. Stereophonic phonograph pickups with V-type stylus to transducer coupler and coupler damper. 3,426,163, 2-4-69, Cl. 179-100.41
Muzyczko, Thaddeus M.; Shore, Samuel; and Martin, Jerome A., to Richardson Company, The. Amino-ethylated novolaks. 3,461,099, 8-12-69, Cl. 260-59.
Muzyczko, Thaddeus: *See—*
Shore, Samuel; Muzyczko, Thaddeus; and Martin, Jerome A.,3,426,081.
MWA Company: *See—*
Reppenhagen, Arthur C., 3,445,967.
Reppenhagen, Arthur C., 3,451,170.
Myall, Norman John, 1/2 to Brown, S. G., Limited. Gyroscopes. 3,453,895, 7-8-69, Cl. 74-5.
Myasoed, Anatoly Eliseevich: *See—*
Basin, Genrikh Maxovich; Gorenshtein, Ilya Vladimirovich; Lemberg, Mark Eleazarovich; Linetsky, Semen Grigorievich; Myasoed, Anatoly Eliseevich; and Zanis, Jakov Benediktovich,3,447,332.
Myatt, Charles Oliver: *See—*
Arlt, Herbert George, Jr.; and Myatt, Charles Oliver,3,438,918.
Myatt, Edward Ronald, to International Standard Electric Corporation. Weatherproof pushbutton key set employing sealed contacts operated by a permanent magnet. 3,448,419, 6-3-69, Cl. 335-206.
Myatt, Edward Ronald; Loveland, Ernest Frederick; and Woodhead, Harry Stanley, to International Standard Electric Corporation. Multiple contact miniature diaphragm relay. 3,460,077, 8-5-69, Cl. 335-152.
Myatt, James Kenneth, to British Titan Products Company Limited. Milling process. 3,448,931, 6-10-69, Cl. 241-20.
Mycroft, George H. Apparatus for mixing air and fuel for internal combustion engines. 3,470,858, 10-7-69, Cl. 123-139.
Myczinski, Alfred, to Vereinigte Flugtechnische Werke G.m.b.H., and 'Weser' Flugzeugbau/Focke-Wulf/Heinkel-Flugzeugbau. Aircraft closure flaps. 3,486,721, 12-30-69, Cl. 244-53.
Myer, Jon H., to Hughes Aircraft Company. Laser tool apparatus. 3,463,594, 8-26-69, Cl. 356-172.
Myerly, Richard C.; and Weinberg, Kurt, to Union Carbide Corporation. Methylation of pyridines. 3,428,641, 2-18-69, Cl. 260-290.
Myers, Albert F., to Boise Cascade Corporation. Plural axle vehicle without transfer case differential mechanism therefor. 3,451,496, 6-24-69, Cl. 180-23.
Myers, Allen J.: *See—*
Cunningham, James J.; Hall, Webster F.; and Myers, Allen J.,3,466,023.
Myers, Alva Robert; and McNulty, James A., to Dohrmann, Instruments Company. Electrolytic titration apparatus. 3,427,238, 2-11-69, Cl. 204-195.
Myers, Arthur L., to Erie Technological Products, Inc. Spark gap. 3,449,614, 6-10-69, Cl. 313-146.
Myers, Clarence M.: *See—*
Ernsthausen, Roger E.; and Myers, Clarence M.,3,485,664.
Myers, Clyde B., to Diamond Shamrock Corporation. Pickle liquor disposal. 3,468,797, 9-23-69, Cl. 210-42.
Myers, Clyde B.: *See—*
Sisson, Cecil G.; Foster, James L.; and Myers, Clyde B.,3,443,890.
Myers, Dirck V.; Barry, Guy T.; Borman, Aleck; Millonig, Robert C.; Westcott, Wayne L.; and Young, Mary B., to Squibb, E. R., & Sons, Inc. Process for producing osteogenic material. 3,458,397, 7-29-69, Cl. 195-2.
Myers, Edward F.; and Port, John R., to Burroughs Corporation. Small low cost memory. 3,439,345, 4-15-69, Cl. 340-172.5
Myers, Edward F.; and Port, John R., to Burroughs Corporation. Wired core memory. 3,466,612, 9-9-69, Cl. 340-172.5
Myers, Eldred M.; and Schuls, Philip G., to General Electric Company. Apparatus for electrical waveform analysis. 3,452,278, 6-24-69, Cl. 324-77.
Myers, Elman B. Reciprocating vacuum pump. 3,471,079, 10-7-69, Cl. 230-53.
Myers, Everett M.: *See—*
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Myers, F. E., & Bro. Co., The: *See—*
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Wolford, Dale E., 3,443,763.
Wolford, Dale E., 3,446,424.
Myers, Felix E., to I-T-E Imperial Corporation, mesne. Fuse holder including coordinated operating means between fuse insertion and an associated circuit breaker device. 3,474,373, 10-21-69, Cl. 337-154.
Myers, Felix E.; and Goodnow, Weston W., to I-T-E Imperial Corporation, mesne. Circuit breaker thermal and magnetic tripping mechanism. 3,487,343, 12-30-69, Cl. 335-35.
Myers, George H.: *See—*
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Myers, Gerald Lee: *See—*
TerWoerds, Francis John; and Myers, Gerald Lee,3,422,982.
Myers, Gordon S.; and Mepham, Timothy J., to American Home Products Corporation. Method of preparing 2-pyridine-aldoxime methochloride. 3,468,896, 9-23-69, Cl. 260-296.
Myers, Harry L.: *See—*
Holt, Lloyd Junior; and Myers, Harry L.,3,469,260.
Myers, Herbert Arthur; and Holzhei, Don Earl, to Deere & Company. Precision seed planting apparatus and method. 3,432,075, 3-11-69, Cl. 221-178.
Myers, Herbert: *See—*
Langley, Robert C.; and Myers, Herbert,3,428,476.
Myers, Herbert, to Mobil Oil Corporation. Lubricating compositions containing polysulfurized olefin. 3,471,404, 10-7-69, Cl. 252-45.

Myers, Herbert; and Kozacik, Alfred P., to Mobil Oil Corporation. Dithioethane derivatives and organic compositions containing the same. 3,481,871, 12-2-69, Cl. 252-45.
Myers, Herbert; Olszewski, William F.; and Butcosk, Richard A., to Mobil Oil Corporation. Grease compositions. 3,429,814, 2-25-69, Cl. 252-48.2
Myers Industries, Inc.: *See*—
Scott, Charles F., 3,428,385.
Myers, Jack A., to United States of America, Navy. Folding munition. 3,439,610, 4-22-69, Cl. 102-4.
Myers, Jack A., to United States of America, Navy. Quick disconnect. 3,448,653, 6-10-69, Cl. 89-1.
Myers, James E.: *See*—
Perez, Arthur; and Myers, James E.,3,478,535.
Myers, James F., to Black, Sivalls and Bryson, Inc. Method for testing relief valves. 3,485,082, 12-23-69, Cl. 73-4.
Myers, John Edmond, to TRW Inc. Thermal heat switch. 3,463,224, 8-26-69, Cl. 165-32.
Myers, John Leonard, to Porter, H. K., Company, Inc. Recessible electrical service device. 3,433,886, 3-18-69, Cl. 174-57.
Myers, John T.: *See*—
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Myers, John W., to Phillips Petroleum Company. Hydrogenation isomerization of aromatics and cycloparaffins. 3,441,624, 4-29-69, Cl. 260-666.
Myers, John W., to Phillips Petroleum Company. Isomerization catalysts and their use. 3,449,264, 6-10-69, Cl. 252-441.
Myers, John W.; and Johnson, Marvin M., to Phillips Petroleum Company. Dealkylation process and catalyst. 3,478,120, 11-11-69, Cl. 260-672.
Myers, Joseph Albert. Articulated snowplow shoe. 3,432,948, 3-18-69, Cl. 37-42.
Myers, Lawrence A., to Chore-Time Equipment, Inc. Ventilator unit. 3,479,947, 11-25-69, Cl. 98-116.
Myers, Louis. Can opener with mechanism for automatically moving the cutter between a cutting and release position in response to operation of the crank. 3,439,418, 4-22-69, Cl. 30-8.5
Myers, Lyell V., to Olin Mathieson Chemical Corporation. Process of forming sheet metal panels. 3,465,406, 9-9-69, Cl. 29-157.
Myers, Michael C.: *See*—
Sarsten, Jan A.; and Myers, Michael C.,3,479,832.
Myers, Neil O., to Du Pont de Nemours, E. I., and Company. Slub yarn process and product. 3,433,007, 3-18-69, Cl. 57-140.
Myers, Oscar, to International Telephone and Telegraph Corporation. Electrically controlled matrix. 3,467,945, 9-16-69, Cl. 340-166.
Myers, Philip E.: *See*—
Clark, Robert H.; and Myers, Philip E.,3,444,970.
Myers, Richard A., to McDonnell Douglas Corporation, mesne. Variable pressure drawpress and method. 3,420,089, 1-7-69, Cl. 72-351.
Myers, Richard A., to Litton Great Lakes Corporation. Method and apparatus for modular construction of a ship. 3,447,503, 6-3-69, Cl. 114-77.
Myers, Richard A.: *See*—
Heap, Forrest J.; and Myers, Richard A.,3,442,175.
Myers, Richard C.: *See*—
Baker, Allen J.; Death, Frank S.; Myers, Richard C.; and Farnsworth, Walter B.,3,422,206.
Myers, Richard T.; McKee, Thomas A.; Spangler, Fred E.; and Wright, Kenneth L., to General Electric Company. Multichannel communication receiver with automatic sampling and lock in on one channel. 3,470,481, 9-30-69, Cl. 325-470.
Myers, Robert A., to International Business Machines Corporation. Electro-optic storage device. 3,445,826, 5-20-69, Cl. 340-173.
Myers, Robert A.; and Pershan, Peter S., to International Business Machines Corporation. Standing wave electro-optic light modulator. 3,432,224, 3-11-69, Cl. 350-150.
Myers, Robert A.: *See*—
Pole, Robert V.; Myers, Robert A.; Barrekette, Euval S.; and Nunez, Jaen,3,440,561.
Pole, Robert V.; Wieder, Harold; and Myers, Robert A.,3,466,110.
Myers, Robert E.; and Westerberg, Eugene R. Rolling object game with elastic bed and probe. 3,482,837, 12-9-69, Cl. 273-109.
Myers, Robert E.: *See*—
Hansen, Wilbur W.; and Myers, Robert E.,3,434,863.
Myers, Robert Holt: *See*—
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Myers, Robert R. Swimming pool cleaner. 3,439,368, 4-22-69, Cl. 15-1.7
Myers, Robert R., to Printing Plate Supply Co. Method of producing printing plates. 3,473,470, 10-21-69, Cl. 101-401.
Myers, Robert R.; and Hayes, Fay A. Aquatic weed harvester. 3,468,106, 9-23-69, Cl. 56-9.
Myers, Ronald G., to Monsanto Company. Differential amplifier voltage comparison circuitry including a network for converting spurious normal mode signals to common mode signals. 3,456,128, 7-15-69, Cl. 307-235.
Myers, Ronald G.; Reid, Samuel C.; and Barton, David M., to Monsanto Company. Voltage to time-interval converter. 3,436,756, 4-1-69, Cl. 340-347.
Myers, Thomas E., to Vance, Norma J. Metal silicate coating utilizing electrostatic field. 3,436,257, 4-1-69, Cl. 117-213.
Myers, Walter E.: *See*—
Turner, Charles R.; Myers, Walter E.; and Manship, Luther P.,3,425,016.
Myers, Walter P. Mobile TV stand. 3,464,662, 9-2-69, Cl. 248-188.
Myers, Wayne E., to McGraw-Edison Company. Sheet feeding and spreading apparatus. 3,429,063, 2-25-69, Cl. 38-143.
Myers, William C.; and Granteer, David L., to Monsanto Company. Electrical control circuits. 3,443,151, 5-6-69, Cl. 315-169.
Myers, William D., to Baker Oil Tools, Inc. Retrievable well bore indexing apparatus. 3,424,246, 1-28-69, Cl. 166-127.
Myers, William D., to Baker Oil Tools, Inc. Apparatus and method for absorbing shock loads. 3,456,764, 7-22-69, Cl. 188-96.
Mykleby, Laurie G., to Republic Packaging Corporation. Sealed carton. 3,423,008, 1-21-69, Cl. 229-31.
Myles, Michael J.; Kupcikevicius, Vytautas; and Beckman, John H., to Union Carbide Corporation. Stuffing apparatus. 3,457,588, 7-29-69, Cl. 17-41.
Myles, Michael J.; Kupcikevicius, Vytautas; and Spellman, John P., to Union Carbide Corporation. Constant pressure filling apparatus. 3,451,098, 6-24-69, Cl. 17-35.
Myles, Thomas A., to Carborundum Company, The. Refractory insulating compositions. 3,467,535, 9-16-69, Cl. 106-64.
Myles, Walter E., to Singer-General Precision, Inc. Point light source. 3,439,157, 4-15-69, Cl. 240-1.
Mylonas, Thomas. Electrical window decoration. 3,446,953, 5-27-69, Cl. 240-10.
Myracle, James L.: *See*—
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Myrick, Joseph C., to Rixon Electronics, Inc. Information encoding and transmitting apparatus. 3,476,876, 11-4-69, Cl. 178-17.
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Hannemann, Franz; Landwehr, Gunter; Sugland, Wolfgang; and Myska, Gunter,3,443,540.
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Naarmann, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of copolymers of lactams and dienes. 3,481,923, 12-2-69, Cl. 260-239.3
Naarmann, Herbert; Hofmann, Hermann Pankraz; and Kastning, Ernst-Guenther, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Polymerization of olefinically unsaturated compounds using π-olefin complexes as polymerization initiators. 3,454,538, 7-8-69, Cl. 260-78.5
Naarmann, Herbert; and Kastning, Ernst-Guenther, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of stereo block butadiene polymer. 3,476,830, 11-4-69, Cl. 260-879.
Naarmann, Herbert; Stabenow, Joachim; and Kastning, Ernst-Guenther, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 1,3-diene polymers in aqueous emulsion. 3,481,895, 12-2-69, Cl. 260-29.7
Naastepad, Pieter Aarat, to North American Philips Company, Inc. Method of making magnetically anisotropic permanent magnets. 3,432,369, 3-11-69, Cl. 148-101.
Nacci, George Raymond, to Du Pont de Nemours, E. I., and Company. Silica-coated magnetic tape. 3,476,595, 11-4-69, Cl. 117-239.
Nachazel, John S., to CF & I Steel Corporation. Coated barbed wire. 3,454,261, 7-8-69, Cl. 256-2.
Nachbur, Hermann; Berger, Alfred; Guth, Christian; and Maeder, Arthur, to Ciba Limited. Phosphorus-containing aminoplasts and process for their preparation. 3,423,369, 1-21-69, Cl. 260-67.6

Nachbur, Hermann; Werner, Robert; and Maeder, Arthur, to Ciba Limited. Copolymers of vinylidenechloride. 3,449,302, 6-10-69, Cl. 260p79.3
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Nacht, Ronald L., to Tenney Engineering, Inc. Boundary seal for test chambers using a vibrator. 3,459,463, 8-5-69, Cl. 312-352.
Nachtsheim, Peter. Hinged double-hung windows. 3,442,049, 5-6-69, Cl. 49-164.
Nachtsheim, Peter. Window sash weather seals. 3,447,266, 6-3-69, Cl. 49-458.
Nack, Herman, to Battelle Development Corporation, The, mesne. Liquid encapsulation. 3,460,972, 8-12-69, Cl. 117-72.
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Nadasan, Stefan; Sulea, Paul; Popescu, Dumitru; Schaumburger, Carol; and Bakonyi, Coloman. Composition material for railway vehicle brake shoes and a method of fabrication of brake shoes. 3,450,236, 6-17-69, Cl. 188-251.
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Nadeau, Clarence S., to Bellavance, Inc. Adjustable end connector. 3,477,107, 11-11-69, Cl. 24-265.
Nadeau, Gale F., to Eastman Kodak Company. Antistatic film compositions and elements. 3,437,484, 4-8-69, Cl. 96-87.
Nadeau, Richard G., to Du Pont de Nemours, E. I., and Company. Enzymatic determination of nitrogen-containing compounds and enzymes reactive therewith. 3,485,723, 12-23-69, Cl. 195-103.5
Nadeau, Richard G.: *See—*
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Nadherny, Rudolph E., to Illinois Railway Equipment Company. Detachable and lockable coupling between the distal end of an air brake hose and the support chain therefor. 3,422,964, 1-21-69, Cl. 213-1.
Nadherny, Rudolph E., to Illinois Railway Equipment Company. Chain locks and chain detachable therefrom for supporting a railway car air brake hose. 3,424,415, 1-28-69, Cl. 248-53.
Nadherny, Russell J.; and Moyer, Wendell W., Jr., to Daubert Chemical Company. Apparatus for dispensing adhesive materials. 3,430,816, 3-4-69, Cl. 222-146.
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Naegeli, Werner, to Pavena A.G. Process and apparatus for the continuous treatment of a staple fiber band or the like with liquid. 3,426,389, 2-11-69, Cl. 19-66.
Naegeli, Werner, to Pavena A.G. Process for the manufacture of a draftable staple fiber band of high density and breaking length. 3,432,889, 3-18-69, Cl. 19-66.
Naeser, Gerhard; Wessel, Otto; and Darschewski, Kurt, to Mannesmann Aktiengesellschaft. Die for the extrusion of heavy metals at high temperatures. 3,433,049, 3-18-69, Cl. 72-467.
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Nagai, Tamiji, to Sony Corporation. Transformerless voltage reducing rectifier circuit. 3,478,258, 11-11-69, Cl. 321-15.
Nagai, Torao; Aiura, Masanobu; Tanaka, Shuzo; and Chiba, Shu, to Tokyo Shibaura Electric Co., Ltd. Microwave heating apparatus. 3,437,777, 4-8-69, Cl. 219-10.55
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Nerwin, Hubert, to Eastman Kodak Company. Film cartridge code arrangement. 3,444,795, 5-20-69, Cl. 95-31.
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Nicklasson, Sven M. A., to Pullmax Aktiebolag. Means for guiding the punch in nibbling machines and the like. 3,481,236, 12-2-69, Cl. 83-140.
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Nicklin, Thomas; and Farrington, Frederick. Treatment of hydrocarbons and catalysts therefor. 3,475,328, 10-28-69, Cl. 208-243.
Nickola, Richard A.; and Shaffer, Thomas F., Jr., to United States Steel Corporation. Method for inhibiting the staining of articles fabricated from aluminum-coated products. 3,461,000, 8-12-69, Cl. 148-6.35
Nickola, Richard A.; and Spare, Gordon T., to United States Steel Corporation. Process for making steel wire. 3,458,365, 7-29-69, Cl. 148-12.4
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Nicolas, Jean Bernard. Apparatus for loading a storage enclosure. 3,446,371, 5-27-69, Cl. 214-17.
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Nicoll, Sidney B., Jr. Apparatus for the manufacture of ceramic products. 3,456,308, 7-22-69, Cl. 25-2.
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Niebel, Benjamin W.; Stover, Richard N.; and Winner, Forney D. Perfect circle hemorrhoidal excisor, stapler and excisor hemostatic dilator. 3,472,231, 10-14-69, Cl. 128-334.
Niebergall, Louis F., to Walker Manufacturing Company. Filter test apparatus. 3,478,601, 11-18-69, Cl. 73-432.
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Niederprum, Hans; Horn, Elmar-Manfred; and Simmler, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of aminoalkyl silicon compounds. 3,458,553, 7-29-69, Cl. 260-448.2
Niederprum, Hans; and Simmler, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Method of preparing 4-alkyl-2,2-dimethyl-2-silamorpholines. 3,448,137, 6-3-69, Cl. 260-448.8
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Nielsen, Arthur. Signal apparatus for automotive vehicles. 3,441,906, 4-29-69, Cl. 340-72.
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Nobile, Luciano; Conorelli, Emanuele; La Noce, Tullio; and Poma, Anteo, to Ledoga S.p.A. Surfactant compositions from active hydrogen organic compounds, fatty acid esters and alkylene oxides, and related manufacturing process. 3,451,936, 6-24-69, Cl. 252-152.

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North, John W. Method of direct casting of steel slabs and billets. 3,438,424, 4-15-69, Cl. 164-138.

North, John. Window washing apparatus. 3,461,476, 8-19-69, Cl. 15-250.04

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Oja, Phyllis D., to Dow Chemical Company, The. Nonthrombogenic plastic membranes. 3,441,142, 4-29-69, Cl. 210-321.
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Okamura, Kazuo, to Daikin Kogyo Kabushiki Kaisha. Stabilized chlorofluoroalkane compositions. 3,465,052, 9-2-69, Cl. 260-652.5
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the image on the screen of a cathode ray tube. 3,471,743, 10-7-69, Cl. 315-24.
Olstowski, Franciszek, to Dow Chemical Company, The. Process for preparing resilient graphite structures. 3,423,496, 1-21-69, Cl. 264-118.
Olstowski, Franciszek, to Dow Chemical Company, The. Metal coated vermicular expanded graphite and polymer composition containing same. 3,440,181, 4-22-69, Cl. 252-503.
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Oltermann, John J.; Woolslayer, Joseph R.; and Jenkins, Cecil, to Moore, Lee C., Corporation. Reclining king-post crane and method of erecting it. 3,435,571, 4-1-69, Cl. 52-119.
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Oltman, Henry G., Jr.; and Kaufman, Irving, to TRW Inc. Ultrasonic transducer. 3,453,456, 7-1-69, Cl. 310-8.2
Oltra, Claude H.; and De Luca, John, to Advance Process Supply Co. Vacuum frame for silk screen stencils. 3,463,587, 8-26-69, Cl. 355-93.
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O'Malley, Martin J. Electric power generating system. 3,426,214, 2-4-69, Cl. 290-55.
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Omon, Gene L., to Case, J. I., Company. Articulated vehicle. 3,433,502, 3-18-69, Cl. 280-400.
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O'Neill, James D., to Ethyl Corporation. Exhaust emission reducing additive. 3,484,217, 12-16-69, Cl. 44-69.
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O'Neill, Raymond J., to De Laval Turbine, Inc. Reciprocating belt filter. 3,437,210, 4-8-69, Cl. 210-387.
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O'Neill, William C., III, to Bowles Engineering Corporation. Apparatus for measuring absolute pressure. 3,449,957, 6-17-69, Cl. 73-388.
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O'Neill, William G., Jr., to Chevron Research Company. Corrosion-resistant valve. 3,420,262, 1-7-69, Cl. 137-375.
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Ono, Shigeo; and Shimomura, Jun, to Nippon Kogaku K.K. Exposure meter correction means for a single lens reflex camera having interchangeable lenses. 3,485,153, 12-23-69, Cl. 95-10.
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Ono, Terumichi; Mizutani, Shigeru; and Arai, Hazime, to Toyo Rayon Kabushiki Kaisha. Thick and thin yarn and process for the preparation thereof. 3,439,084, 4-15-69, Cl. 264-167.
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Onufer, George R. Balancer for rotating body. 3,462,198, 8-19-69, Cl. 301-5.
Onulak, Eugene W. Link chain and method of making same. 3,426,522, 2-11-69, Cl. 59-8.
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Orsino, Joseph A., to Electromite Corporation. Liquid activated battery. 3,481,791, 12-2-69, Cl. 136-113.
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Orth, Charles D.; and Treder, Charles F., to Controls Company of America. Bubless thermostatic expansion valve. 3,450,345, 6-17-69, Cl. 236-92.
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Ortner, Ernst; and Hartman, Richard A., to International Rectifier Corporation. O-bend lead for semiconductor packages. 3,449,642, 6-10-69, Cl. 317-234.
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Osborn, Carroll H., to Dayco Corporation. Method of making corrugated flexible hose. 3,445,308, 5-20-69, Cl. 156-86.
Osborn, Carroll H.; and Cudd, Wilson E., to Dayco Corporation. Flexible tubing and method of manufacture. 3,478,770, 11-18-69, Cl. 138-135.
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Osborn, Harry B., Jr., to Ohio Crankshaft Company, The. Heat treating method. 3,433,683, 3-18-69, Cl. 148-13.2
Osborn, Howard, to Wiggins Teape Research & Development Limited. Sheet stacking apparatus. 3,477,323, 11-11-69, Cl. 83-79.
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Osborn, Oliver; and Robertson, John C., to Dow Chemical Company, The. Method for production of particulate metal. 3,482,963, 12-9-69, Cl. 75-0.5
Osborn, Peter E., to Friden, Inc. Delay line resynchronization apparatus. 3,465,301, 9-2-69, Cl. 340-172.5
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Osborn, Robert Otto, to Du Pont de Nemours, E. I., and Company. Regenerated cellulose film. 3,423,400, 1-21-69, Cl. 260-212.
Osborn, Stephen W., to Thiokol Chemical Corporation. Catalytic process. 3,472,821, 10-14-69, Cl. 260-79.
Osborn, Stephen W.; Broderick, Edward; and Villa, Jose L., to Thiokol Chemical Corporation. Production of vicinal episulfides by the oxide- catalyzed reaction of an alkylene oxide and a sulfur-donor. 3,426,039, 2-4-69, Cl. 260-327.
Osborn, Stephen W.; and Gobran, Riad H., to Thiokol Chemical Corporation. Antifriction bearings. 3,464,845, 9-2-69, Cl. 117-49.
Osborn, Stephen W.; and Villa, Jose L., to Thiokol Chemical Corporation. Process for the preparation of vicinal episulfides. 3,457,277, 7-22-69, Cl. 260-327.
Osborn, William F., Jr.; and Soder, Karl G., to General Motors Corporation. Turbine power plant. 3,466,871, 9-16-69, Cl. 60-67.
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Osborne, Alan P., to Dunlop Company Limited, The. Bonding textiles to rubbers. 3,433,664, 3-18-69, Cl. 117-76.
Osborne, Bodwell D. Submersible automatic solid surface cleaner. 3,422,478, 1-21-69, Cl. 15-1.7
Osborne, Fred H.; and Corbett, Michael J., to Wurlitzer Company, The. Record popularity indicator. 3,420,532, 1-7-69, Cl. 274-10.
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Osborne, William E., to General Dynamics Corporation. Radiation sensitive omnidirectional motion detector system. 3,480,775, 11-25-69, Cl. 250-83.3
Osborne, William T.: *See—*
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Osburn, Albert R., to Thiokol Chemical Corporation. Combustion barrier for rocket motor. 3,427,805, 2-18-69, Cl. 60-39.47
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Osgan, Maseh; Silly, Jean-Pierre; and Teyssie, Philippe, to Institut Francais du Petrole, des Carburants et Lubrifiants. Catalyst compositions based on bivalent metals and the application thereof, particularly for the polymerization of cyclic ethers. 3,432,445, 3-11-69, Cl. 260-2.
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Osgood, Richard B., to Hewlett-Packard Company. Retaining apparatus for an ultrasonic coupling medium. 3,431,440, 3-4-69, Cl. 310-8.1
O'Shaughnessy, Lawrence P.; and Cooper, Charles M., to Mondar, Inc. Modular wall construction. 3,466,821, 9-16-69, Cl. 52-204.
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Oshida, Otto A.; Gilmore, John P.; and Lowe, James H., to Grefco, Inc. Method for manufacturing improved perlite filteraid products. 3,441,515, 4-29-69, Cl. 252-455.
Oshima, Akio; Sakurai, Shinichi; and Matsuo, Tetsuo, to Kanegafuchi Chemical Industry Co., Ltd. Method of preventing the formation of popcorn polymer of chloroprene. 3,461,179, 8-12-69, Cl. 260-652.5
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Oshima, Masanao, to Mitsui Shipbuilding & Engineering Co., Ltd. Container storing apparatus for container ship. 3,467,044, 9-16-69, Cl. 114-72.
Oshima, Shintaro, to Kokusai Denshin Denwa Kabushiki Kaisha. Electrical pin connectors. 3,427,551, 2-11-69, Cl. 339-47.
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Oshima, Shintaro; and Kamibayashi, Tetsusaburo, to Kokusai Denshin Denwa Kabushiki Kaisha, (also known as Kokusai Denshin Denwa Co., Ltd.). Woven wire memory matrix. 3,428,955, 2-18-69, Cl. 340-174.
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Oshima, Shintaro; Nakagome, Yukio; and Fukata, Yasuo, to Kokusai Denshin Denwa Kabushiki Kaisha. Time-division synchronous system for a plurality of synchronous telegraph circuits. 3,476,878, 11-4-69, Cl. 178-50.
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Osika, Thomas F., to McGill Manufacturing Company, Inc. Electrical switch having pressure contacts. 3,482,064, 12-2-69, Cl. 200-16.
Osipow, Lloyd I.; and Marra, Dorothea, to Patterson, C. J., Company. Stable gelled alcohol compositions containing sodium acyl lactylates. 3,472,940, 10-14-69, Cl. 424-365.
Osipow, Lloyd I.; and Rosenblatt, William, to States of Nebraska, The. Esterification of polyhydric compounds in the presence of transparent emulsifying agent. 3,480,616, 11-25-69, Cl. 260-234.

Osjagin, Jury Semenovich: *See—*
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Oslebo, Richard G.; Newton, Robert F.; and Jacobson, Alden H., to Heald Machine Company, The. Machine tool. 3,458,924, 8-5-69, Cl. 29-568.
Oslund, Roger I., to Teletype Corporation. Synchronizing mechanism for encrypting telegraph transmitter. 3,479,456, 11-18-69, Cl. 178-22.
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Osojnak, Boris M., to Engineered Date Products, Inc. Reel storage apparatus. 3,472,386, 10-14-69, Cl. 211-40.
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Osrow, Harold, to Osrow Products Company, Inc. Pressurized container with cap having suspension means for display purposes. 3,428,220, 2-18-69, Cl. 222-153.
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Ostberg, Werner; and Patzias, Terry, to Dundee Cement Company. Process for forming special cements. 3,437,329, 4-8-69, Cl. 263-53.
Ostby, Marvin E., to Cutler-Hammer, Inc. Electromagnetic switching device. 3,453,569, 7-1-69, Cl. 335-132.
Osteen, Emmett H. Mercury safety switch for vehicles. 3,478,183, 11-11-69, Cl. 200-61.47
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Oster, Earl A., to Environ, Inc., mesne. Scrap recovery process. 3,429,022, 2-25-69, Cl. 29-403.
Oster, Eugene A.; Miekka, Richard G.; and Maget, Henri J. R., to General Electric Company. Deposition of catalytic noble metals. 3,423,228, 1-21-69, Cl. 117-47.
Oster, Gerald, to United States of America, Atomic Energy Commission. Chemical dosimeter. 3,461,288, 8-12-69, Cl. 250-83.
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Patterson, Robert C. Litter bag support. 3,476,341, 11-4-69, Cl. 248-95.

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Pellegrini, Roberto Einaudi; Lanzoni, Ugo Keller; Pinelli, Italo Camera; Urgnani, Luigib,t3 Marini, Franco Coluatti; Vianelli, Francisco Indaco; and Vigil, Abraham Chavez, to Tubas de Acero de Mexico, S.A., and Technit Engineering Company, Inc. Engineering Company, Inc. Method and apparatus for the continuous charging of sponge iron granules into an electric furnace. 3,462,538, 8-19-69, Cl. 13-9.
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Pena, Pascual J., to Automatic Electric Laboratories, Inc. Piezoelectric signaling device. 3,445,843, 5-20-69, Cl. 340-392.
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Perry, William D.Portable non-contact moisture meter including electrodes driven 180° out of phase. 3,448,381, 6-3-69, Cl. 324-61.

Perryman, Ronald Thomas, to Lesney Products & Co.Limited. Toy and model vehicles. 3,474,564, 10-28-69, Cl. 46-201.
Perryman, Ronald Thomas; and Rix, Frederick Noel, to Lesney Products & Co. Limited. Toy and model vehicles. 3,462,878, 8-26-69, Cl. 46-201.
Perschy, James A., to United States of America, Navy. Control system for a current steering switch. 3,478,223, 11-11-69, Cl. 307-88.
Pershan, Peter S.: *See—*
Myers, Robert A.; and Pershan, Peter S.,3,432,224.
Persico, George J.; and Steele, Luther R., to Walker Manufacturing Company. Bending press. 3,472,057, 10-14-69, Cl. 72-396.
Persidsky, Maxim D.; and Roach, William J., to Oxford Laboratories. Microtome. 3,440,913, 4-29-69, Cl. 83-422.
Persky, Nathan N., 1/2 to Purdy Co., The, and 1/2 to Sharonized Steel Co. Apparatus for scrap metal reduction. 3,486,704, 12-30-69, Cl. 241-167.
Person, Burton C.: *See—*
Armantrout, Robert J.; and Person, Burton C.,3,449,181.
Person, Herman R., to Dale Electronics, Inc. Electrical surge arrestor. 3,480,832, 11-25-69, Cl. 317-16.
Person, James E.; and Person, Robert E. Apparatus for use in forms for concrete. 3,436,053, 4-1-69, Cl. 249-192.
Person, John T.: *See—*
Eller, Joe C.; and Person, John T.,3,461,080.
Person, Robert E.: *See—*
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Wolicki, Jerry M., 3,457,916.
Persons, Robert C. Universal support for a cycle saddle brace. 3,486,766, 12-30-69, Cl. 280-287.
Persons-Majestic Mfg. Co.: *See—*
Bird, Martin J., 3,486,777.
Perspective Inc.: *See—*
Dewey, Donald E.; Hartman, Charles H.; Horn, Robert D.; and McCartney, Talmadge O., 3,422,537.
Persson, Bertil J., to Scan Coin AB. Coin feeding device. 3,422,824, 1-21-69, Cl. 133-3.
Persson, Bror Gothe. Mechanism for adjusting the backrest of seats in vehicles. 3,441,313, 4-29-69, Cl. 297-374.
Persson, Bror Gothe. Resilient chair support, especially for seats in motor vehicles. 3,446,527, 5-27-69, Cl. 296-65.
Persson, Eric S.; and Persson-Melin, Signe Harriett, to Expo-Nord AB. House of trifurcate configuration. 3,474,577, 10-28-69, Cl. 52-18.
Persson, Erik, to Allmanna Svenska Elektriska, Aktiebolaget. Power transmission plant for high voltage direct current. 3,487,286, 12-30-69, Cl. 321-2.
Persson, Erik; Claesson, Nils-Erik; Trulsson, Ingvar; and Melandsor, Osvald, to Allmanna Svenska Elektriska Aktiebolaget. Device for measuring the width of glowing objects by scanning with a photocell. 3,470,383, 9-30-69, Cl. 250-219.
Persson, Erland K., to Electro-Craft Corporation. Control apparatus. 3,436,573, 4-1-69, Cl. 310-113.
Persson, Henry. Sheet metal and plate deburring machine. 3,460,432, 8-12-69, Cl. 90-86.
Persson, Jan Edvard, to Atlas Copco Aktiebolag. Screw rotor machines. 3,437,263, 4-8-69, Cl. 230-143.
Persson, Karl Rune, to Sprinter-Pack AB. Carton box and blank therefor. 3,433,402, 3-18-69, Cl. 229-33.
Persson, Karl Rune, to Sprinter Pack AB. Blank for a glued cardboard box. 3,454,209, 7-8-69, Cl. 229-33.
Persson, Knut Axel Waldemar, to AB Broderna Hedlund. Apparatus for automatic welding of sheet metal shells, especially cistern shells. 3,436,518, 4-1-69, Cl. 219-126.
Persson, Sven Olof. Clamping device for use with carpenters' benches and the like. 3,474,841, 10-28-69, Cl. 144-306.
Persson, Tage G. Sheet metal deburring apparatus. 3,437,008, 4-8-69, Cl. 90-24.
Persson-Melin, Signe Harriett: *See—*
Persson, Eric S.; and Persson-Melin, Signe Harriett,3,474,577.
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Bergstrand, Sten-Ake, 3,431,083.
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Gelhaar, Bo E. O., 3,484,396.
Ghosh, Arthur G., 3,463,750.
Pertics, Emil E. Catching and guide means in a berry harvester. 3,449,895, 6-17-69, Cl. 56-330.
Pertsev, Alexei Alexandrovich: *See—*
Butaev, Filipp Ivanovich; Klimov, Nikolai Semenovich; Pertsev, Alexei Alexandrovich; Stepanov, Nikolai Pavlovich; Shemaev, Alexandr Mikhailovich; and Shkolin, Ilya Dmitrievich,3,437,863.
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Pertwee, Kenneth S. G., to General Electric Company. Tungsten powder bonded filament connection for incandescent lamps and method of manufacture. 3,484,644, 12-16-69, Cl. 313-331.
Perucchetti, Arturo, to Dolomite Franchi S.p.A. Refractory lining for arc furnaces, adapted to facilitate dismembering upon completion of a campaign. 3,458,641, 7-29-69, Cl. 13-35.
Peruski, Gerald C. Device for cleaning and setting a hairpiece. 3,477,448, 11-11-69, Cl. 132-9.
Perusse, Norman J.; and Cheever, Wilbur D., to Wiremold Company, The. Helically ribbed tubing and method and apparatus for making the same. 3,472,131, 10-14-69, Cl. 93-80.
Perusse, Norman J.; and Cheever, Wilbur D., to Wiremold Company, The. Helically ribbed tubing and method and apparatus for making the same. 3,472,132, 10-14-69, Cl. 93-80.
Pervorse, Richard E.; Wiser, Joseph E.; Peterson, John A.; and Murray, Stephen F., to Mallory, P. R., & Co., Inc. Directional control systems for synchronous motors. 3,448,308, 6-3-69, Cl. 310-41.
Pervorse, Richard E.: *See—*
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Perwas, Ludwig F. Projected measuring surface gage blocks. 3,426,436, 2-11-69, Cl. 33-168.
Perwas, Ludwig F. Center-line gauges. 3,458,938, 8-5-69, Cl. 33-174.
Pesarini, Mario; and Tosti, Carlo, to Bombrini Parodi-Delfino Societa per Azioni. System including a tubular launching tube and a rocket provided with an outer auxiliary launching charge. 3,438,303, 4-15-69, Cl. 89-1.818
Pesavento, Joseph A.; and Washburn, Darl C., Jr., to Westinghouse Electric Corporation. Control for a dragline. 3,460,278, 8-12-69, Cl. 37-116.
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Haack, Erich; Peschke, Wilhelm; Stach, Kurt; Schmidt, Felix H.; and Weber, Helmut,3,439,033.
Peschl, John; and Larson, Robert E., to Stanford Research Institute. Computer for the approximation of the correlation between signals. 3,435,194, 3-25-69, Cl. 235-181.
Pesek, Cyril P., to Colight, Inc. Apparatus for chemical etching. 3,431,921, 3-11-69, Cl. 134-127.
Pesold, William F., to Wyandotte Chemicals Corporation. Purification of calcium chloride liquors. 3,428,417, 2-18-69, Cl. 23-90.
Pessimisis, George N., to Nelco Chemical Company. Method of manufacturing hydrocracking catalysts. 3,425,957, 2-4-69, Cl. 252-455.
Pessin, Jacques H., to United States of America, Navy. Reflector antenna inflatable with foamed plastic. 3,448,456, 6-3-69, Cl. 343-873.
Pesterfield, Enos Charles, Jr., to Geigy Chemical Corporation. Preparation of 2-imidazolone derivatives by catalytic cyclization. 3,432,520, 3-11-69, Cl. 260-309.6
Pesterfield, Enos Charles, Jr., to Geigy Chemical Corporation. Cyclization of substituted propargyl ureas to 2- imidazolone derivatives. 3,435,051, 3-25-69, Cl. 260-309.6
Pet Chemicals, Inc.: *See—*
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Pet Incorporated: *See—*
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Bowen, Eldred W., 3,425,887.
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Petchen Corporation: *See—*
Schwarz, Herbert, 3,431,142.
Peter, Albin; and Mueller, Fred, to Sandoz Ltd., a/k/a Sandoz A.G. Process for dyeing hydrophobic organic textile materials with anthraquinone dyestuffs. 3,447,886, 6-3-69, Cl. 8-39.
Peter, Eberhard: *See—*
Heide, Gotthard, 3,452,583.
Peter, Erwin, to Vereinigte Metallwerke Ranshofen-Berndorf. Corner joint assembly with connecting means. 3,456,973, 7-22-69, Cl. 287-189.36
Peter, Erwin, to Vereinigte Metallwerke Ranshofen-Berndorf Aktiengesellschaft. Method of connecting hollow-profile frames and frame-connection assembly. 3,468,573, 9-23-69, Cl. 287-189.36
Peter, Fritz, to Hunt, Rodney Company. Wet processing apparatus. 3,430,466, 3-4-69, Cl. 68-184.
Peter, Henry B.: *See—*
Klemm, William F.; and Alber, Hans, 3,426,793.
Peter, Joseph E., to Hamilton Caster & Mfg. Co., The. Caster brake mechanism. 3,467,981, 9-23-69, Cl. 16-35.
Peter, Joseph F. Lampshade. 3,445,647, 5-20-69, Cl. 240-108.

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Peter, Lothar: *See—*
Peter, Oskar Erich; and Peter, Lothar,3,441,327.
Peter, Oskar Erich; and Peter, Lothar, to Peter KG. Roller bearing. 3,441,327, 4-29-69, Cl. 308-217.
Peter, Philip W. Method of color coating bloated aggregate. 3,445,260, 5-20-69, Cl. 117-23.
Peter, Philip W. Process for treating sewage. 3,458,434, 7-29-69, Cl. 210-7.
Peter Van Dillen, Paul Joan; Vollmer, Eva Maria; Kallfass, Herbert; and Zimmermann, Max, to Borg Holding Aktiengesellschaft, and Farbenfabriken Bayer Aktiengesellschaft. Process for the surface treatment of plants containing water and/or steam. 3,428,488, 2-18-69, Cl. 134-3.
Peterkin, Melvin E.; and Scott, Kenneth A., to Sun Oil Company. Process for the purification of 2,6-dimethyl- naphthalene. 3,485,885, 12-23-69, Cl. 260-674.
Peterlein, Karl: *See—*
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Peterli, Hans Jakob; and Randell, Donald Richard, to Geigy Chemical Corporation. Dibenzazepine compounds useful as stabilizers for oxidizable organic compositions. 3,475,412, 10-28-69, Cl. 260-239.
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Peters, Alec, to Omni-Card Systems, Inc. Hot die ribbon inker stamping machines. 3,430,557, 3-4-69, Cl. 101-27.
Peters, Alec, to Omni-Card Systems, Inc. Identification card and method of making it. 3,457,661, 7-29-69, Cl. 40-2.2
Peters, Alphonsus Maria; and Rongen, Jacobus Johannes, to U.S. Philips Corporation, mesne. Push-pull amplifier including transistor. 3,440,552, 4-22-69, Cl. 330-15.
Peters and Russell, Inc.: *See—*
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Russell, Linus E., 3,467,020.
Peters, Artur; and Friehe, Bernhard, to Unilever N.V. Package for foodstuffs. 3,445,050, 5-20-69, Cl. 229-14.
Peters, Beldon A., to Esso Production Research Company. Well completion technique and apparatus for use therewith. 3,455,387, 7-15-69, Cl. 166-278.
Peters, Bryon M. Grass and weed eradicating spray unit. 3,464,629, 9-2-69, Cl. 239-104.
Peters, Byron M., to Ampex Corporation. Auxiliary wheel unit for a lawn edger. 3,448,812, 6-10-69, Cl. 172-15.
Peters, Charles Jack, to Sylvania Electric Products Inc. Light depolarizer. 3,433,553, 3-18-69, Cl. 350-157.
Peters, Charles J., to Sylvania Electric Products, Inc. Laser communications system employing narrow band noise cancellation. 3,465,156, 9-2-69, Cl. 250-199.
Peters, Claude H.; Peters, Richard C.; and Peters, Jack A. System control for blower in forced air system used for heating. 3,474,961, 10-28-69, Cl. 236-10.
Peters, Clifford M. Spring loaded intermittent and constant flow gas lift valve and system. 3,424,099, 1-28-69, Cl. 103-233.
Peters, Collette I.: *See—*
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Peters, Don B.: *See—*
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Peters, Donald L., to Phillips Petroleum Company. Blow molded closure. 3,438,538, 4-15-69, Cl. 220-39.
Peters, Donald L.; and Alexander, Doyle L., to Phillips Petroleum Company. Method and apparatus for blow-molding hollow articles with integrally molded hollow handles. 3,424,829, 1-28-69, Cl. 264-89.
Peters, Earl; and Cain, James Palmer, to Deering Milliken Research Corporation. Wool fibers sensitized for setting by applying thereto one member of a reducing agent-producing coreactant pair, mechanically finishing and applying the second member of said pair. 3,449,061, 6-10-69, Cl. 8-127.6
Peters, Earl; and Dusenbury, Joseph H., to Deering Milliken Research Corporation. Polyhydroxy compounds used in conjunction with reducing agents in wool setting processes. 3,423,166, 1-21-69, Cl. 8-128.
Peters, Edward L., to United States of America, Navy. Deep water hydrobarophone. 3,447,379, 6-3-69, Cl. 73-398.
Peters, Edward M.: *See—*
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Peters, Edwin F.; and Juveland, Omar O., to Standard Oil Company (Indiana). Saturation of polyalkylenes. 3,475,399, 10-28-69, Cl. 260-93.7
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Peters, Frederick C. Electric switch for moving cables with spring-wire trip rod and contacts. 3,471,660, 10-7-69, Cl. 200-61.13
Peters, Freimut: *See—*
Witte, Josef; Herrmann, Marion; Woidt, Jurgen; and Peters, Freimut,3,457,111.
Peters, G. D., & Co. (Engineering) Limited: *See—*
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Harris, Samuel W.; Morello, Edwin F.; and Peters, Gavin H.,3,459,494.
Peters, George A.; and Briney, Douglas, to United States of America, Air Force. Integrated-circuit carrier. 3,454,154, 7-8-69, Cl. 206-56.
Peters, George T.; and Oickle, Charles, Jr., to United Aircraft Corporation. Dynamic braking system for wheeled vehicles. 3,434,569, 3-25-69, Cl. 188-2.
Peters, Hans A. Method for the preparation of rubberlike elastic urethane polymers. 3,463,759, 8-26-69, Cl. 260-75.
Peters, Harold P.; and Woods, John T., to Whirlpool Corporation. Gasket brace. 3,461,610, 8-19-69, Cl. 49-478.
Peters, Harry L.; Nessim, David J.; Morrow, James J.; and Hilton, Garrett H., Jr., to Fischer & Porter Co. Chlorine gas leak detector. 3,471,391, 10-7-69, Cl. 204-195.
Peters, Heinrich: *See—*
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Peters, Helmut: *See—*
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Peters, Helmut; and Szaj, Arnold P., to Nordberg Manufacturing Company. Locking and adjusting means for crushers and control means therefor. 3,420,457, 1-7-69, Cl. 241-207.
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Peters, Jack A.: *See—*
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Peters, Jack David. Stamp device for writing instruments. 3,438,716, 4-15-69, Cl. 401-195.
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Peters, James G. Albums for photographs or the like. 3,422,557, 1-21-69, Cl. 40-158.
Peters, James; Clift, Mason A., Jr.; Stagg, Theodore B., Jr.; and Davis, Francis E., Jr., to United States of America, Navy, mesne. Peak detector circuit for providing an output proportional to the amplitude of the input signal. 3,469,111, 9-23-69, Cl. 307-235.
Peters, John, Associates, Inc.: *See—*
Peters, John J., 3,429,639.
Peters, John J., to Peters, John, Associates, Inc. Remotely operable vehicular mirror and coupling mechanism. 3,429,639, 2-25-69, Cl. 350-289.
Peters, John William, to International Standard Electric Corporation. Code generating keyboard apparatus. 3,454,717, 7-8-69, Cl. 178-17.5
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Grigor, James; and Peters, John,3,484,486.
Peters, John; and Grigor, James, to United States of America, Navy. 2,2-Bis(difluoroamino)-alkanes by reacting aliphatic ketone with difluoramine and BF_3. 3,432,554, 3-11-69, Cl. 260-583.
Peters, Myron J.; and Peters, Collette I. Food tenderizing device. 3,483,810, 12-16-69, Cl. 99-257.
Peters, Nicholas. Rotational positioning system for electric motors. 3,437,895, 4-8-69, Cl. 318-33.
Peters, Nicholas. Reversible direct current motor. 3,466,482, 9-9-69, Cl. 310-269.
Peters, Philip H., Jr., to General Electric Company. Inverted cross-field device having an arcuately segmented cathode. 3,458,754, 7-29-69, Cl. 315-39.3
Peters, Rex B., to Endevco Corporation. Accelerometer. 3,461,730, 8-19-69, Cl. 73-517.
Peters, Richard C.: *See—*
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Peters, Robbert N., to Atwood Vacuum Machine Company. Door check. 3,447,191, 6-3-69, Cl. 16-82.
Peters, Robert W., to Gorski, Henry J. Stator winding machine. 3,467,324, 9-16-69, Cl. 242-1.1
Peters, Robert W., to Gorski, Henry J. Apparatus for winding stator coils. 3,484,923, 12-23-69, Cl. 29-205.
Peters, Robert W.; and Luber, Fredrick G., to Gorski, Henry J. Three phase concentric stator windings and method of winding. 3,432,707, 3-11-69, Cl. 310-180.
Peters, Roger Hugh: *See—*
Chapman, John Dickinson; Dee, Geoffrey Thomas; Janikowski, Stanislaw Maria; and Peters, Roger Hugh,3,449,107.
Peters, Timothy V. Process of reticulating polyurethane foams. 3,475,525, 10-28-69, Cl. 264-101.
Peters, Vernon G., to Anaconda Wire and Cable Company. Wire take-up. 3,420,459, 1-7-69, Cl. 242-25.

Peters, Wayne J. Collapsible cover for luggage compartments in compact vehicles. 3,446,526, 5-27-69, Cl. 296-37.
Peters, Werner; Echterhoff, Heinrich; and Bertling, Heribert, to Bergwerksverband G.m.b.H. Process of producing iron-coke bodies. 3,427,148, 2-11-69, Cl. 75-4.
Peters, Werner; and Lehmann, Joachim, to Bergwerksverband G.m.b.H. Method for producing coke briquettes. 3,475,278, 10-28-69, Cl. 201-6.
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Peters, William J., to E.F.L.,Inc. Eternal light memorial structure. 3,444,363, 5-13-69, Cl. 240-10.
Peters, William J. Trailer safety hitch. 3,479,056, 11-18-69, Cl. 280-461.
Peterschmidt, Paul L., to Frigidome Corporation. Methods of and systems for treating agriculture products. 3,426,669, 2-11-69, Cl. 98-55.
Petersen, Alfred A., to Universal Oil Products Company. Adjustable particle collection apparatus. 3,477,570, 11-11-69, Cl. 209-144.
Petersen, Allen J.; and Hansen, Everett K., to Rae Motor Corporation. Electric motor brush holder mounting. 3,431,445, 3-4-69, Cl. 310-239.
Petersen, Allen J.; and Hansen, Everett K., to Rae Motor Corporation. Electric motor brush holder, cap and spring. 3,431,446, 3-4-69, Cl. 310-247.
Petersen, Andreas. Long-handled brush. 3,431,575, 3-11-69, Cl. 15-176.
Petersen, Anita E.: *See—*
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Petersen, Gerald A., 3,484,844.
Petersen, Arne J., to Beckman Instruments, Inc. Reference electrode. 3,486,997, 12-30-69, Cl. 204-195.
Petersen, Arne J.; and Taylor, John T., to Beckman Instruments, Inc. Flow cell assembly. 3,479,270, 11-18-69, Cl. 204-195.
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Petersen, Bent Schare, to Danfoss A/S. Memory having a multi-valved impedance element. 3,445,823, 5-20-69, Cl. 340-173.
Petersen, Burdette A., to Weber, H. G., and Company, Inc. Low viscosity bottom paste applicator for bag machines. 3,450,099, 6-17-69, Cl. 118-212.
Petersen, Christian C.: *See—*
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Petersen, Donald H., to Weyerhaeuser Company. Moisture content measuring method and apparatus. 3,452,193, 6-24-69, Cl. 250-43.5
Petersen, Edward A. Cantilevered transfer support for wheelchairs and wheelchair incorporating the same. 3,484,877, 12-23-69, Cl. 5-86.
Petersen, Eirik Nicoll, to Institutt for Atomenergi. Nuclear reactor. 3,429,775, 2-25-69, Cl. 176-54.
Petersen, Elmer. Pallet molding. 3,435,784, 4-1-69, Cl. 108-51.
Petersen, Gerald A., 1/2 to Petersen, Anita E. Tooth and holder for bucket. 3,426,459, 2-11-69, Cl. 37-142.
Petersen, Gerald A. Pilot bit with replaceable teeth. 3,426,860, 2-11-69, Cl. 175-392.
Petersen, Gerald A. Pivoted tooth-holder for tunneling machine. 3,439,758, 4-22-69, Cl. 175-381.
Petersen, Gerald A. Tensioner bull wheel shaft structure. 3,439,883, 4-22-69, Cl. 242-155.
Petersen, Gerald A., 1/2 to Petersen, Anita E. Round holder for replaceable cutters for earth-digging. 3,483,931, 12-16-69, Cl. 172-548.
Petersen, Gerald A., 1/2 to Petersen, Anita E. Resilient retaining means for ripper chain teeth. 3,484,844, 12-16-69, Cl. 37-142.
Petersen, Gert Kokholm; and Rasmussen, Erik B. Method for the determination of acid-base status in biological fluids. 3,467,582, 9-16-69, Cl. 204-1.
Petersen, Gilbert L., to General Motors Corporation. Flexible cable and casing adaptor tip assembly. 3,440,836, 4-29-69, Cl. 64-4.
Petersen, Harlic O. Irrigation systems. 3,433,023, 3-18-69, Cl. 61-12.
Petersen, Harro, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. 2-Oxo-or thio-4-alkoxy or alkoxyalkoxy-alkyl- hexahydropyrimidines. 3,450,702, 6-17-69, Cl. 260-251.
Petersen, Harro, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. 2-Oxo-or thio-4-hydroxy-alkyl- hexahydropyrimidines. 3,450,703, 6-17-69, Cl. 260-251.
Petersen, Harro, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of alkyl substituted 4-hydroxy-, alkoxy-or alkoxy alkoxy-propylene ureas or propylene thioureas. 3,452,017, 6-24-69, Cl. 260-251.
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Petersen, John F. Method and apparatus for draining water. 3,427,810, 2-18-69, Cl. 61-10.
Petersen, Kenneth C., to Schenectady Chemicals, Inc. Ammonium biborate and ammonium pentaborate catalyzed and co-reacted phenol formaldehyde resins. 3,464,956, 9-2-69, Cl. 260-57.
Petersen, Kenneth C., to Schenectady Chemicals, Inc.Adhesive comprising polychloroprene, alkylated ρ- phenol having 2 to 6 carbon atoms and ρ-cresol condensed with formaldehyde. 3,478,127, 11-11-69, Cl. 260-845.
Petersen, Kenneth C.: *See—*
Jordan, Manuel A.; and Petersen, Kenneth C.,3,437,123.
Petersen, Kenneth. Resins containing boron. 3,445,430, 5-20-69, Cl. 260-47.
Petersen, Kurt H.; and Pankow, Paul A. H., to Minnesota Mining and Manufacturing Company. Heating device. 3,469,077, 9-23-69, Cl. 219-469.
Petersen, Paul S., to Rosemount Engineering Company. Mold and method of making same. 3,434,182, 3-25-69, Cl. 18-35.
Petersen, Povl Viggo; Lassen, Niels; Norgaard, Jette; and Huld, Torben, to Kefalas A/S. Antidepressant basic derivatives of phthalanes, iso-chromanes and iso-chromenes. 3,467,675, 9-16-69, Cl. 260-346.2
Petersen, Raymond C.: *See—*
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Petersen, Rudolph S., to Sanders Associates, Inc. Temperature sensitive switch. 3,442,278, 5-6-69, Cl. 137-81.5
Petersen, Siegfried; Gold, Heinrich; Grundmann, Ekkehard; and Juhling, Lieselotte, to Farbenfabriken Bayer Aktiengesellschaft. Quinone derivatives of imidazoles and pyrazoles. 3,461,130, 8-12-69, Cl. 260-309.
Petersen, Tom Kastrup, to Danfoss A/S. Liquid-level measuring equipment. 3,485,100, 12-23-69, Cl. 73-295.
Petersen, Walter M. Portable camper cabin. 3,455,310, 7-15-69, Cl. 135-2.
Petersik, Adolph R.: *See—*
Swisher, George W., Jr.; Spivey, Gordon L.; and Petersik, Adolph R.,3,423,859.
Petersik, Peter: *See—*
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Peterson, A. E., Mfg. Co.: *See—*
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Peterson, Arnold E., 3,480,290.
Peterson, Adolphe C. Variable systems of propulsion for automobiles. 3,433,317, 3-18-69, Cl. 180-7.
Peterson, Adolphe C. Turbine gas generator and work propulsion system for aircraft and other vehicles. 3,442,082, 5-6-69, Cl. 60-224.
Peterson, Adolphe C. Variable sustentation systems for aircraft. 3,484,059, 12-16-69, Cl. 244-46.
Peterson, Alan H., to Marathon Oil Company. Cationic ion exchange resin catalysts and process for their production and use. 3,479,322, 11-18-69, Cl. 260-67.
Peterson, Alan H., to Marathon Oil Company. Production of 3,4,5,-trimethyl-1-secondary alkyl benzenes. 3,487,119, 12-30-69, Cl. 260-671.
Peterson, Alan H.; and Farrar, Grover L., to Marathon Oil Company. Viscous flammable compositions. 3,447,914, 6-3-69, Cl. 44-7.
Peterson, Alan H.: *See—*
Plummer, Mark A.; and Peterson, Alan H.,3,487,012.
Peterson, Alfred Arnold: *See—*
Whiton, Louis C.; and Peterson, Alfred Arnold,3,432,994.
Peterson, Arnold E., to Peterson, A. E., Mfg. Co. Folding high chair with adjustable rack. 3,425,743, 2-4-69, Cl. 297-19.
Peterson, Arnold E., to Peterson, A. E., Mfg., Co. Collapsible baby stroller. 3,480,290, 11-25-69, Cl. 280-36.
Peterson, Arnold G., to L. M. & L. Corporation. Endless belt assembly with insert coupling. 3,461,733, 8-19-69, Cl. 74-238.
Peterson Automated Paper Handling Systems, Inc.: *See—*
Peterson, Eric Ronald, 3,429,469.
Peterson, Bertil Albin, to Mobil Oil Corporation. Alkaline earth metal carboxylate dispersions. 3,437,594, 4-8-69, Cl. 252-40.7
Peterson, Bruce E., to Vapor Corporation. Circuit for controlling the operation of a static inverter under overload conditions. 3,444,453, 5-13-69, Cl. 321-14.
Peterson, Bruce Even: *See—*
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Peterson, Bulow A.; and Carlson, Gale K., to Kewanee Manufacturing Company. Door frames. 3,469,360, 9-30-69, Cl. 52-217.
Peterson, Bulow A.: *See—*
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Peterson, C. Lynn; and Peterson, John G., to Peterson Filters & Engineering Company. Disc filter sector assembly and separable components thereof. 3,485,376, 12-23-69, Cl. 210-331.
Peterson, Carl A.; and Appel, Wallace H., to Westinghouse Electric Corporation. Countertop dishwasher. 3,460,878, 8-12-69, Cl. 312-297.
Peterson, Carl B., Jr., to Hubbell, Harvey, Incorporated. Electrical wiring device having improved captured screw terminals. 3,426,321, 2-4-69, Cl. 339-263.

Peterson, Carl B., Jr., to Hubbell, Harvey, Incorporated. Thread forming screw and method of making. 3,472,119, 10-14-69, Cl. 85-47.

Peterson, Carl L.: *See—*
Gungle, Warren C.; Peterson, Carl L.; and Waymouth, John F.,3,424,935.

Peterson, Carl R.: *See—*
Buehler, Alois A.; and Peterson, Carl R.,3,431,984.

Peterson, Dean M.; Pickering, Charles E.; and Windle, William, Jr., to Eastman Kodak Company. Photographic camera with retractile lens and shutter trigger. 3,440,939, 4-29-69, Cl. 95-11.

Peterson, Dean M.; Pickering, Charles E.; and Windle, William, Jr., to Eastman Kodak Company. Photographic camera with metered film advance and double exposure prevention. 3,473,456, 10-21-69, Cl. 95-31.

Peterson, Dean M.; Windle, William, Jr.; and Pickering, Charles E., to Eastman Kodak Company. Retractile lens camera with automatic exposure control system and battery preserving switch. 3,439,596, 4-22-69, Cl. 95-11.

Peterson, Don G.: *See—*
Culshaw, William; Dahlquist, John A.; and Peterson, Don G.,3,463,924.

Peterson, Don M.: *See—*
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Peterson, Donovan F., to U. S. Automatics Corporation. Semiconductor controlled switch circuit component. 3,448,298, 6-3-69, Cl. 307-303.

Peterson Enterprises, Incorporated: *See—*
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Peterson, Eric Ronald, to Peterson Automated Paper Handling Systems, Inc. Paper stacking apparatus. 3,429,469, 2-25-69, Cl. 214-730.

Peterson, Evald O.: *See—*
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Peterson, Evald O., to Compo Shoe Machinery Corporation. Die-cutting machine with rotatable die- supporting platen. 3,431,806, 3-11-69, Cl. 83-561.

Peterson Filters & Engineering Company: *See—*
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Peterson, Francis C., to Hager, C., & Sons Hinge Manufacturing Company. Hinge. 3,441,977, 5-6-69, Cl. 16-168.

Peterson, George E., to Bell Telephone Laboratories, Incorporated. Wideband feedback coherence control for Superregenerative oscillators. 3,439,259, 4-15-69, Cl. 324-0.5

Peterson, George E., to Bell Telephone Laboratories, Incorporated. Optical $LiNbO^3$ modulator. 3,446,966, 5-27-69, Cl. 250-199.

Peterson, George E.: *See—*
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Peterson, Gerald D.; and Schaffer, Harry J., to Corning Glass Works. Centrifugal forming mold. 3,459,527, 8-5-69, Cl. 65-302.

Peterson, Gerald H. Cyclobutyl phosphate and phosphonate esters. 3,485,898, 12-23-69, Cl. 260-958.

Peterson, Gerald H. Cyclopropyl phosphates and phosphonates. 3,485,899, 12-23-69, Cl. 260-958.

Peterson, Gordon E.; and Moyer, Robert G., to Union Carbide Corporation. Flexible drinking tube. 3,438,578, 4-15-69, Cl. 239-33.

Peterson, Hal D.: *See—*
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Peterson, Hans P.: *See—*
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Peterson, Hans P., to Dunham-Bush, Inc. Refrigeration system and method. 3,460,354, 8-12-69, Cl. 62-184.

Peterson, Harley G.: *See—*
Kossowski, Kazimierz; and Peterson, Harley G.,3,426,507.

Peterson, Harold A.: *See—*
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Peterson, Henry J., to Sun Oil Company. Production of 6,7-dimethyltetralin and 2,3- dimethylnaphthalene. 3,428,698, 2-18-69, Cl. 260-668.

Peterson, Henry J., to Sun Oil Company. Preparation of substituted o-nitrophenols. 3,461,173, 8-12-69, Cl. 260-622.

Peterson, Howard P., to Research Corporation. Sanitizing apparatus for milking machines. 3,461,845, 8-19-69, Cl. 119-14.18

Peterson, Howard: *See—*
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Peterson, Jack W., to Char-Lynn Company. Fluid pressure balanced valve. 3,425,448, 2-4-69, Cl. 137-625.24

Peterson, Janet Brooks; and Dexter, Martin, to Geigy Chemical Corporation. Compositions of organic material stabilized with certain esters of substituted hydroquinones and organic acids. 3,459,704, 8-5-69, Cl. 260-45.85

Peterson, John A., to Hooker Chemical Corporation. Production of sodium phosphates. 3,421,845, 1-14-69, Cl. 23-107.

Peterson, John A.: *See—*
Pervorse, Richard E.; Wiser, Joseph E.; Peterson, John A.; and Murray, Stephen F.,3,448,308.

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Peterson, John L., to Atlas Spokane, Inc. Noncylindrical particle storage facility. 3,469,719, 9-30-69, Cl. 214-17.

Peterson, John L., to Atlas Spokane, Inc. Central particle removing system for noncylindrical storage facilities. 3,469,720, 9-30-69, Cl. 214-17.

Peterson, John L.; and Pettis, George H., to Atlas Spokane, Inc. Drive mechanism including chain. 3,469,464, 9-30-69, Cl. 74-221.

Peterson, John Loran: *See—*
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Peterson, John W.; and Schick, Henry, to Gilbert Manufacturing Company, Inc. Apparatus for assembling electrical connectors. 3,444,607, 5-20-69, Cl. 29-203.

Peterson, Joseph A.: *See—*
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Peterson, Joseph Le Roy, to Tyler, W. S., Incorporated. Method and apparatus for wet sizing finely divided solid materials. 3,438,490, 4-15-69, Cl. 209-17.

Peterson, Karl E., to Western Electric Company, Incorporated. Apparatus and method for indicating defective welds. 3,433,921, 3-18-69, Cl. 219-110.

Peterson, Laurel L.: *See—*
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Peterson, Leslie M. Pivotal locking device. 3,453,925, 7-8-69, Cl. 85-3.

Peterson, Louis H.: *See—*
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Peterson, Marvin L. Water-bearing explosive compositions gelled with polymeric amide-aldehyde and method of making same. 3,451,868, 6-24-69, Cl. 149-60.

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Peterson, Neal Duane, to Foxboro Company, The. Function simulator. 3,482,169, 12-2-69, Cl. 328-59.

Peterson, Niels G.: *See—*
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Peterson, Oscar A., to Halcon International, Inc. Agitator shaft steady bearing. 3,443,794, 5-13-69, Cl. 259-1.

Peterson, Ralph W., to Ludlum Steel Corporation. Two-position intermittent movement. 3,473,417, 10-21-69, Cl. 74-820.

Peterson, Raymond L.: *See—*
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Peterson, Richard G.; and Jaffe, Emanuel B., to Gallo, E & J, Winery. Berry and fruit treating process. 3,484,254, 12-16-69, Cl. 99-105.

Peterson, Richard H. Electronic musical instrument producing piano effects. 3,444,306, 5-13-69, Cl. 84-1.13

Peterson, Richard J.: *See—*
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Peterson, Richard L., to Minnesota Mining and Manufacturing Company. Adhesives and adhesive tapes. 3,441,430, 4-29-69, Cl. 117-68.5

Peterson, Robert A., to Caterpillar Tractor Company. Earthmoving scraper with multiple articulated apron structure. 3,471,952, 10-14-69, Cl. 37-129.

Peterson, Robert A., to Caterpillar Tractor Company. Bucket arrangement with articulated gathering cover. 3,477,602, 11-11-69, Cl. 214-767.

Peterson, Robert C.; and Maass, Herman M., to Anaconda Company, The. Separate recovery of copper sulfide and zinc sulfide from aqueous solutions containing water- soluble salts of copper and zinc. 3,421,850, 1-14-69, Cl. 23-135.

Peterson, Robert E. Streamlined missile device for location of submarines. 3,483,837, 12-16-69, Cl. 114-20.

Peterson, Robert R.; Schmidt, Warren E.; and Woodford, Philip R., to Lord Corporation. Tube form mounting. 3,467,353, 9-16-69, Cl. 248-358.

Peterson, Robert W., to Walker Manufacturing Company. Jack-type weigher with cantilever spring. 3,433,314, 3-18-69, Cl. 177-146.

Peterson, Roger F. Compact weigher and postage computer with selectable-fulcrum beam. 3,454,120, 7-8-69, Cl. 177-126.

Peterson, Roger W.: *See—*
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Peterson, Roswald M. Method for making dies. 3,431,767, 3-11-69, Cl. 72-327.

Peterson, Roy L. Press. 3,450,031, 6-17-69, Cl. 100-93.

Peterson, Rudolph Andrew, Jr.; and Polzin, Donald Herman, to Deere & Company. Clevis. 3,471,171, 10-7-69, Cl. 280-497.
Peterson, Seymour A.; and Granath, John W., to Storm Industries, Inc. Method of controlling the laying habits of poultry. 3,439,651, 4-22-69, Cl. 119-21.
Peterson, Stanley E.: *See—*
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Peterson, Thomas G.; and Pomerantz, Marvin A., to Great Plains Bag Co. Material spreader for a lawnmower. 3,447,723, 6-3-69, Cl. 222-193.
Peterson, Vincent C. J., to American Chain & Cable Company, Inc. Energy absorbing system. 3,430,897, 3-4-69, Cl. 244-110.
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Peterson, Walter E., to International Telephone and Telegraph Corporation. Self-controlled variable time base tape programmer. 3,482,081, 12-2-69, Cl. 235-61.11
Peterson, William B. Auxiliary wheel assembly. 3,450,013, 6-17-69, Cl. 94-50.
Peterson, William D.; and Kline, Arthur J., Jr., to United States of America, National Aeronautics and Space Administration. Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities. 3,470,475, 9-30-69, Cl. 325-63.
Peterson, William H., to Pullman Incorporated. Double acting hydraulic cushion. 3,468,433, 9-23-69, Cl. 213-43.
Petertil, Victor A.; and Teague, James, Jr. Integral clamp. 3,453,700, 7-8-69, Cl. 24-137.
Pethis, James J., to Fafnir Bearing Company, The. Bearing seal construction. 3,423,141, 1-21-69, Cl. 308-187.2
Petit, Albert Louis: *See—*
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Petit, Pierre, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Process for the production of a fluid rich in methane from liquefied natural gas under a low initial pressure. 3,420,068, 1-7-69, Cl. 62-23.
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Petitt, William H., to Harriman Manufacturing Company, The. Method for welding nodular iron to steel. 3,449,545, 6-10-69, Cl. 219-137.
Petko, Michael A.; and Burger, Theodore G., to Marshall, John Donald, and Bomar, Horace L., as trustees of Carolina Patent Development Trust, The, mesne. Holding device. 3,439,512, 4-22-69, Cl. 66-14.
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Petner, Eugene J., to Williams Gold Refining Company, Inc. Dental crowns faced with polyglycol dimethacrylate and process for making. 3,470,615, 10-7-69, Cl. 32-12.
Petner, Eugene J.; Baumann, Erwin; and Cornell, John A., to Williams Gold Refining Company, Inc. Process of making fused thermosetting dental objects. 3,471,596, 10-7-69, Cl. 264-19.
Petracek, Francis J., to Rexall Drug and Chemical Company. α-Diaryl α,γ-alkylene glycol-diloweralkylamines. 3,433,836, 3-18-69, Cl. 260-570.
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Petrich, Louis G., to United States of America, Army, mesne. Low profile open-ended waveguide antenna with dielectric disc lens. 3,434,146, 3-18-69, Cl. 343-753.
Petrick, Joseph R., to Jackson & Church Electronics Company, Inc. System for sensing levels and electrical characteristics of fluent materials. 3,474,337, 10-21-69, Cl. 324-58.5
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Petrie, Adelore F., to General Electric Company. Audio amplifier including class A driver and class B output stages. 3,454,889, 7-8-69, Cl. 330-15.
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Petrie, Robert M. Rope connector. 3,422,925, 1-21-69, Cl. 182-196.
Petrik, Albert V. Above-ground swiming-pool construction. 3,419,918, 1-7-69, Cl. 4-172.
Petrik, Dragan Rudolf. Underwater floating and to required level submerged tunnel composed from prefabricated tunnel units. 3,478,521, 11-18-69, Cl. 61-43.
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Fattore, Vittorio; Petrini, Guido; and Cavaterra, Enrico,3,474,042.
Petro, Geza, Jr., 1/3 each to Monoki, Tiberio, and Welsch, F. Daniel. Conveyor bucket with hydraulically-operated grille-like lid. 3,451,575, 6-24-69, Cl. 214-767.
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Petrocci, Alfonso N.; Prodo, Kenneth W.; Shay, Edward G.; and Wakeman, Reginald L., to Millmaster Onyx Corporation. Synergistic blends of microbiocidal quaternary ammonium compounds. 3,472,939, 10-14-69, Cl. 424-329.
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Petroff, Merlin O., to Anocut Engineering Company. Control system for electrolytic machining apparatus. 3,433,728, 3-18-69, Cl. 204-224.
Petroff, Robert J. Intermittent mechanism and method of making the same. 3,456,529, 7-22-69, Cl. 74-817.
Petrohilos, Harry, to United Systems Corporation. Digital readout instrument employing a non-linear transducer and a linear potentiometer. 3,441,846, 4-29-69, Cl. 324-65.
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Petroleum Tool Research, Inc.: *See—*
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Pfister, Marcel C. Electrical weigher with control circuitry for supplying digital information to utilization device. 3,458,001, 7-28-69, Cl. 177-3.
Pfister, Rudolf; Sallmann, Alfred; and Hammerschmidt, Winrich, to Geigy Chemical Corporation. Substituted malonic acid monohydrazides. 3,455,999, 7-15-69, Cl. 260-518.
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Pfleger, Frederick W. Combination counter-timer. 3,433,405, 3-18-69, Cl. 235-91.

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Pfleghaar, Anton, to Motoren-Werke Mannheim A.G., Vorm. Benz Abt. Stat. Motorenbau. Internal combustion engine cylinder head. 3,447,524, 6-3-69, Cl. 123-189.

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Pfleiderer, Friedrich; and Schlichte, Max, to Siemens Aktiengesellschaft. TDM system with means for crosstalk reduction by changing the slot positions of the channels after each frame period. 3,433,899, 3-18-69, Cl. 179-15.

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Phillip. Hubert C.; and Nunnelley, William B. Apparatus for grouping triangular roof trusses for banding. 3,486,638, 12-30-69, Cl. 214-7.
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Phillips, Bernard C., to Tillotson Manufacturing Company, The. Fuel feeding and charge forming apparatus. 3,454,265, 7-8-69, Cl. 261-41.
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Phillips, Claude F.; and Parrent, William Russell, to Airtex Products, Division of United Industrial Syndicate. Apparatus for testing fuel pumps. 3,452,591, 7-1-69, Cl. 73-118.
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Phillips, Dwight M. Resilient retaining means. 3,466,772, 9-16-69, Cl. 37-142.
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Pico, Francisco A. Centrifugal separating apparatus. 3,438,500, 4-15-69, Cl. 210-213.
Pico Safe Stairs Co.: *See—*
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Picollo, Giacomo. Automatic coin stacking and wrapping machine. 3,432,983, 3-18-69, Cl. 53-52.
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Pidoux, Robert: *See—*
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Piearcey, Barry J., to United Aircraft Corporation. Method of casting by directional solidification. 3,485,291, 12-23-69, Cl. 164-127.
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Pierce, Chester J., Jr., to Kliklok Corporation. Construction of a folding box corner, and method of assembly. 3,450,330, 6-17-69, Cl. 229-33.
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Pierce, Dennis G., to Chemetron Corporation, mesne. Welding apparatus employing single power supply for straight and reverse welding polarities. 3,475,585, 10-28-69, Cl. 219-131.
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Pierce, Kenneth L.; and James, Robert W., to Cook Paint & Varnish Company. Single package oleoresinous varnish 'C' enamel and process of making same. 3,450,656, 6-17-69, Cl. 260-22.
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Pierce, Russell W., to Abcor, Inc., mesne. Apparatus for and method of detecting sulfur- containing compounds. 3,437,446, 4-8-69, Cl. 23-232.
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Pierce, Stanley L., Jr., to Ford Motor Company. Multiple stage governor valve assembly for establishing a speed-pressure signal. 3,431,928, 3-11-69, Cl. 137-54.
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Pierce, William S.; Morrow, Andrew G.; and Behrendt, Douglas M., to United States of America, Health, Education and Welfare. Pivoted butterfly type heart valve. 3,448,465, 6-10-69, Cl. 3-1.
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Pierman, Martin J.; Donath, Edwin W.; and Ernst, Otto A., to Alnor Instrument Company. Air velocity measuring apparatus. 3,463,003, 8-26-69, Cl. 73-189.
Piernik, Edward. Automatic underwater 'and' gate switch. 3,437,770, 4-8-69, Cl. 200-61.47
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Piero, Barozzi Gian; and Giancarlo, Horeschi, to Citizen Watch Co., Ltd. Simultaneous transfer mechanism for calculating machines. 3,482,775, 12-9-69, Cl. 235-137.
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Pierrat, Jean, to Societe Anonyme des Ateliers de Aviation Louis Breguet. Apparatus for storing information elements. 3,440,610, 4-22-69, Cl. 340-172.5
Pierrat, Jean, to Societe Anonyme des Ateliers d'Aviation Louis Breguet. Apparatus for adjusting the position of the optical axis of a projector with respect to a screen. 3,455,630, 7-15-69, Cl. 353-70.

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Pierret, Jean Marc, to International Business Machines Corporation. Apparatus for carrier phase correction. 3,435,343, 3-25-69, Cl. 325-389.
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Pierro, John J.; and Russell, Lewis B., to North American Rockwell Corporation. Speed control system for a dynamo-electric machine. 3,448,363, 6-3-69, Cl. 318-197.
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Pierson, William D., Jr., deceased0 (by Pierson, Rilla May Curtis; administratrix), to General Electric Company. Concealed trim clamp for electrical panelboards and telephone cabinets. 3,465,914, 9-9-69, Cl. 220-24.3
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Pietrusza, Edward W.; Pinter, Rudolph; and Pedersen, Jack R., to Allied Chemical Corporation. Anionic polymerization of lactams with symmetrical triazine as cocatalyst. 3,448,085, 6-3-69, Cl. 260-78.
Pietrusza, Edward W.; Pinter, Rudolph; and Pedersen, Jack R. 2,4,6-Tri-(epsilon-caproimido) sym. triazine. 3,485,822, 12-23-69, Cl. 260-239.3
Pietrzak, Joe P., to General Motors Corporation. Mold with suction holders for confections. 3,423,061, 1-21-69, Cl. 249-92.
Pietrzak, Joe P., to General Motors Corporation. Freezing tray with chain ice chipper. 3,466,890, 9-16-69, Cl. 62-320.
Pietrzak, Joe P., to General Motors Corporation. Tray and grid with grooves. 3,480,251, 11-25-69, Cl. 249-127.
Pietrzak, Joe P.; and Strahan, Robert M., to General Motors Corporation. Combination freezing tray and grid. 3,475,921, 11-4-69, Cl. 62-320.
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Pignone, Joseph, to Beseler, Charles, Company. Film carrier. 3,469,917, 9-30-69, Cl. 355-72.
Pignone, Joseph, to Beseler, Charles, Company. Photographic enlarger. 3,486,807, 12-30-69, Cl. 355-62.
Piguet, Albert, to Fabrique d'Horlogerie Lemania, Lugrin S.A. Zero reset mechanism for timepieces measuring time intervals. 3,430,434, 3-4-69, Cl. 58-74.
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Pihl, George E., to Miniature Electronic Components Corp. Quantizer. 3,436,752, 4-1-69, Cl. 340-347.
Pihl, George E., to Miniature Electronic Components Corp. Electromagnetic indicator having control magnets as stop members. 3,451,055, 6-17-69, Cl. 340-373.
Pihl, George E., to Miniature Electronic Components Corp. Progammable digital time switching system. 3,456,123, 7-15-69, Cl. 307-141.
Pihl, George E., to Miniature Electronic Components Corp. Electromagnetic indicator having plural magnetically interacting indicator elements. 3,465,333, 9-2-69, Cl. 340-373.
Pihl, George E., to Miniature Electronic Components Corp. Electromagnetic indicator having rotating spheres. 3,487,403, 12-30-69, Cl. 340-373.
Pihl, George E.; and Tilley, Richard B., to Miniature Electronic Components Corp. Plural magnet latching electromagnetic indicators. 3,425,055, 1-28-69, Cl. 340-373.

Pihlblad, Karl Erik; and Wagner, Anton Robert, to Nyby Bruks Aktiebolag. Method for refining a metal. 3,468,657, 9-23-69, Cl. 75-59.
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Pijpers, Franciscus W.; and Starmans, Maria M.J.J., to Shell Oil Company. Alkali on a support promoted by iron or iron and antimony in sulfur dioxide removal. 3,428,575, 2-18-69, Cl. 252-464.
Pike, Albert M., Jr. Beverage dispenser and method of refilling. 3,435,990, 4-1-69, Cl. 222-1.
Pike, Charles A.; and Woodland, Norman J., to International Business Machines Corporation. Fibre deflection means. 3,470,320, 9-30-69, Cl. 178-7.6
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Pike, Kenneth R.; Wilcox, Quentin I.; and Cooper, Allen E., to Chrysler Corporation. Inboard-outboard drive. 3,430,604, 3-4-69, Cl. 115-41.
Pike, Malcolm Roy, to Rolls-Royce Limited. Supersonic intake for a jet engine. 3,439,692, 4-22-69, Cl. 137-15.2
Pike, Malcolm Roy; and Bragg, Stephen Lawrence, to Rolls-Royce Limited. Supersonic intake for a jet propulsion engine. 3,483,881, 12-16-69, Cl. 137-15.2
Pike, Sophia E. Powder dispensing glove. 3,473,699, 10-21-69, Cl. 222-105.
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Pikula, Joseph E., to Union Carbide Corporation. Silicone sized paper and cellulosic fiber. 3,438,807, 4-15-69, Cl. 117-154.
Pikula, Joseph E., to Union Carbide Corporation. Textile materials coated with hydrolytically stable siloxane-oxyalkylene block copolymers containing SiH. 3,445,276, 5-20-69, Cl. 117-138.8
Pilaar, Jan Carel. Pavement. 3,421,417, 1-14-69, Cl. 94-11.
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Platz, Rolf; and Baur, Karl Gerhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Removing palladium compounds from aqueous glyoxal solutions. 3,475,495, 10-28-69, Cl. 260-604.
Platz, Rolf; Nohe, Heinz; and Schuler, Dominik, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Recovering palladium compounds by extraction with amines. 3,437,431, 4-8-69, Cl. 23-50.
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Plummer, Harland C., to Woodward Governor Company. Speed governor with rate limiter. 3,426,777, 2-11-69, Cl. 137-18.

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Plummer, Mark A.; and Peterson, Alan H., to Marathon Oil Company. Processes for the improvement of initial color and long-term color stability of aromatic concentrates. 3,487,012, 12-30-69, Cl. 208-264.

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Posso, Pierre A. L. Tape or film spool. 3,438,592, 4-15-69, Cl. 242-71.8
Posso, Pierre A. L. Locking device for a box adapted to contain a spool of material. 3,451,541, 6-24-69, Cl. 206-52.
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Prete, Ernest, Jr., to Tridair Industries, mesne. Snaphook device. 3,439,390, 4-22-69, Cl. 24-201.
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Preti, Jean Claude, to Societe de Fabrication d'Instruments de Mesure (S.F.I.M. Doppler radars. 3,423,753, 1-21-69, Cl. 343-8.
Preti, Jean Claude, to Societe de Fabrication d'Instruments de Mesure (S.F.I.M.). Apparatus for controlling travelling objects, and more particularly motor vehicles, at intersecting tracks or roads. 3,457,546, 7-22-69, Cl. 340-37.
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Hanisch, Emil; Pretterhofer, Leopold; and Neidl, Wilhelm,3,438,533.
Pretty, Frederick A.; and Gibbard, Thomas, to USM Corporation. Cutting press with work feed means. 3,451,299, 6-24-69, Cl. 83-263.
Pretzer, Paul R. Packing method and apparatus. 3,486,290, 12-30-69, Cl. 53-29.
Preud'homme, Jean; and Tchelitcheff, Serge, to Rhone-Poulenc S.A. Spiramycin derivative. 3,472,930, 10-14-69, Cl. 424-121.
Preuss, Albert F.; White, Harry J.; and Clemens, David H., to Rohm & Haas Company. Polyolefinic succinates. 3,448,049, 6-3-69, Cl. 252-51.5
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Preusser, Anton A. H.; and Sipkes, Hendrik, to Verenigde Kunstmestfabrieken Mekog-Albatros N.V. Method and apparatus for carrying out exothermic gas reactions. 3,424,553, 1-28-69, Cl. 23-199.
Preux, Roger. Rotary electric contactors of the point-contact type. 3,423,555, 1-21-69, Cl. 200-153.
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Previc, Edward P., to Consolidation Coal Company. Hydrogenation of ortho-phenolic Mannich bases. 3,461,172, 8-12-69, Cl. 260-621.
Previte, Dominick L., to Eaton Yale & Towne Inc. Safety pressure cap. 3,434,621, 3-25-69, Cl. 220-44.

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Prevost, Attilio. Motion picture cutting desk projector device. 3,472,582, 10-14-69, Cl. 352-133.
Prevost, Robert, to Societe Anonyme Heurtey. Needle valves, notably for direct-flow lock- chambers. 3,429,331, 2-25-69, Cl. 137-219.
Prew, Lionel R., to Shell Oil Company. Apparatus for transporting liquefied gases. 3,428,013, 2-18-69, Cl. 114-74.
Prew, Robert H., to Nashua Corporation. Synchronous paper feeding mechanism. 3,451,754, 6-24-69, Cl. 355-73.
Prew, Thomas B., to Stafford Tool and Die Company Limited. Clicking die for cutting sheet materials and method of making said die. 3,459,090, 8-5-69, Cl. 83-652.
Prewett, James Nigel: *See—*
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Prewitt, Richard H. Rotary wing device. 3,485,466, 12-23-69, Cl. 244-138.
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Price, Alson K.; and Sweeney, Richard F., to Allied Chemical Corporation. 1-Hydroxyperfluorocyclo alkyl acetic acid and corresponding chlorides. 3,427,349, 2-11-69, Cl. 260-514.
Price, Bernard F. Pressure control for installation in wells. 3,457,864, 7-29-69, Cl. 103-6.
Price, Billy J., 25% to Foster & Creighton Company. Mobile cantilevered bridge scaffold. 3,456,756, 7-22-69, Cl. 182-63.
Price, Billy Ray; St. Pierre, Richard Ernest; and Lloyd, Neil E., to Celanese Corporation. Non-woven cigarette filter rod. 3,477,445, 11-11-69, Cl. 131-267.
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Price, David B., to Westinghouse Electric Corporation. Support for room heater. 3,420,485, 1-7-69, Cl. 248-188.3
Price, David B., to Westinghouse Electric Corporation. Air deflecting means for fans. 3,481,534, 12-2-69, Cl. 230-274.
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Silver, Harold F.; and Price, Frank B.,3,431,839.
Silver, Harold F.; Steele, Clarence R.; and Price, Frank B.,3,443,905.
Price, George Edmond, to Craig & Seeley Limited. Hinge assembly. 3,437,087, 4-8-69, Cl. 126-191.
Price, George E., to Truswood Structures Limited. Wood truss joint. 3,452,502, 7-1-69, Cl. 52-693.
Price, Glenn R., to Stauffer Chemical Company. Bis(hydroxypolyalkoxyalkyl)-N,N dihydroxyalkyl aminomethyl phosphonates. 3,457,333, 7-22-69, Cl. 260-945.
Price, Glenn R., to Stauffer Chemical Company. Phosphorus containing urethane foams. 3,480,594, 11-25-69, Cl. 260-77.5
Price, Glenn R., to Stauffer Chemical Company. Chloro-substituted hydroxypolyalkoxy aminomethylphosphinates. 3,480,699, 11-25-69, Cl. 260-945.
Price, Harold A.; and Price, Donald A., to Gas Processors, Inc. Air pollutant incineration. 3,472,498, 10-14-69, Cl. 263-40.
Price, Harold J.: *See—*
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Price, Harry Preston, Jr.Storage assembly for draftsman's articles. 3,476,259, 11-4-69, Cl. 211-69.8
Price, Herbert K., to Reynolds Metals Company. Method of making strip conductor material. 3,477,126, 11-11-69, Cl. 29-605.
Price, Herbert; and Kesten, Seymour. Adjustable picture frame. 3,465,461, 9-9-69, Cl. 40-155.
Price, Howard; Szilagyi, Bela; and Quinto, Mario, to International Patents & Development Corporation, mesne. Garbage compactor. 3,481,268, 12-2-69, Cl. 100-49.
Price, Jack Richard, to English Electric Company Limited, The. Information transmission system. 3,445,813, 5-20-69, Cl. 340-150.
Price, Jerry L.; and Singleton, Thomas C., to Monsanto Company. Gas sample compositor. 3,429,186, 2-25-69, Cl. 73-421.5
Price, Joel S. Cooking utensil. 3,425,340, 2-4-69, Cl. 99-422.
Price, John A.; and Carlson, Otto K., to FMC Corporation. Lithium amide as a transesterification catalyst. 3,420,803, 1-7-69, Cl. 260-75.
Price, John A.; and Carlson, Otto K., to FMC Corporation. Group IA metal manganities, manganates, and cobaltites as polyester polycondensation catalysts. 3,475,380, 10-28-69, Cl. 260-75.
Price, John A.; and Carter, Mary E., to FMC Corporation. Preparation of polyethylene terephthalate by direct esterification in the presence of a metal citrate as a direct esterification catalytic additive. 3,475,381, 10-28-69, Cl. 260-75.
Price, John A.; and Stewart, Mary J., to FMC Corporation. Salts of ethylene diamine tetraacetic acid as polycondensation catalysts. 3,427,288, 2-11-69, Cl. 260-75.
Price, John A.: *See—*
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Price, John Clifford, to International Standard Electric Corporation. Digit pulse retiming arrangement for a binary code generator. 3,447,090, 5-27-69, Cl. 328-164.
Price, John Clifford; and Kitajewski, Ryszard, to International Standard Electric Corporation. Analogue-to-digital converter employing series connected negative resistance devices. 3,460,128, 8-5-69, Cl. 340-347.
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Price, Joseph, to Arde, Inc. Cylindrical fluid storage and expulsion apparatus. 3,421,661, 1-14-69, Cl. 222-94.
Price, Leon V. Lawn edger having cuttings collection means. 3,475,887, 11-4-69, Cl. 56-25.4
Price, Lowell T.; Moon, John J.; and Stewart, Charles M., to Phillips Petroleum Company. Separation of products of ethylene polymerization. 3,476,823, 11-4-69, Cl. 260-683.15
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Price, Ralph E., to Landis Tool Company, mesne. Feed mechanism for grinding machine. 3,466,976, 9-16-69, Cl. 51-165.
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Price, Ralph E.; and Gebel, Kurt M., to Landis Tool Company. Precision feed mechanism with indicator. 3,482,361, 12-9-69, Cl. 51-165.
Fries, John R.; and Price, Ralph E.,3,468,070.
Fries, John R.; Price, Ralph E.; and Boller, John A.,3,468,069.
Price, Ralph Eldridge, to Landis Tool Company, mesne. Collet chuck. 3,472,525, 10-14-69, Cl. 279-58.
Price, Raymond J.: *See—*
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Price, Robert J.; and Fischer, Ernest W., Jr. Gain stabilization device. 3,475,748, 10-28-69, Cl. 340-347.
Price, Robert S., to United States of America, Navy. Method of repairing low-noise transmission cable. 3,433,687, 3-18-69, Cl. 156-47.
Price, Robert S. Lingerie clasp. 3,434,185, 3-25-69, Cl. 24-74.
Price, Tom B., to Texaco Inc. Well flow test apparatus. 3,451,475, 6-24-69, Cl. 166-0.5
Price, Walter J.: *See—*
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Price, Warren H., to Gilson Bros., Co. Adjustable steering gear. 3,449,981, 6-17-69, Cl. 74-498.
Price, Warren H., to Gilson Bros. Co. Mounting linkage for rotary mowers. 3,483,684, 12-16-69, Cl. 56-25.4
Price, Warren H.; and Erickson, Donald G., to Jacobsen Manufacturing Company. Lawn mower control. 3,462,924, 8-26-69, Cl. 56-25.4
Price, William B. Surface treating apparatus. 3,482,273, 12-9-69, Cl. 15-49.
Price, William H., to Eastman Kodak Company. Reversed Galilean viewfinder. 3,472,578, 10-14-69, Cl. 350-212.

Price, William H., to Eastman Kodak Company. Zoom wide aperture lens. 3,477,776, 11-11-69, Cl. 350-184.
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Prichard, Evan S.; and Brennan, George A., to Challenge-Cook Bros., Incorporated. Transit mixer discharge chute. 3,456,769, 7-22-69, Cl. 193-4.
Prickett, Alfred Donald, to Lucas, Joseph (Industries) Limited. Thermally operable flasher units. 3,441,890, 4-29 -69, Cl. 337-138.
Prickett, Alfred Donald, to Lucas, Joseph, (Industries) Limited. Vehicle direction indicator systems. 3,469,232, 9-23-69, Cl. 340-80.
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Pridy, Whetstine B. Oil well tubing testing and cleaning apparatus. 3,436,957, 4-8-69, Cl. 73-40.5
Pridy, Whetstine B. Apparatus for straightening elongate metal members. 3,446,054, 5-27-69, Cl. 72-389.
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Priebe, Lawrence W., Jr., to Columbia Products Company. Fishing rod. 3,466,783, 9-16-69, Cl. 43-18.
Priebs, Horst, to Anker-Werke Aktiengesellschaft. Multiple-color printing structure for bookkeeping machines and the like. 3,432,022, 3-11-69, Cl. 197-153.
Priebs, Horst, to Anker-Werke Aktiengesellschaft. Rockable type segments in printing mechanism for business machines. 3,456,583, 7-22-69, Cl. 101-94.
Priede, Teodore; and Wilkins, Jan, to C.A.V. Limited. Liquid fuel injection nozzles. 3,465,969, 9-9-69, Cl. 239-533.
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Priefert, Marvin J. Vertical bumper guard attachment. 3,431,005, 3-4-69, Cl. 293-65.
Priefert, Marvin J. Towing hitch for vehicles. 3,455,574, 7-15-69, Cl. 280-491.
Priel, Ury; and Seelbach, Walter C., to Motorola, Inc. Clocked R-S flip-flop. 3,424,928, 1-28-69, Cl. 307-291.
Priel, Ury; Seelbach, Walter C.; and Treadway, Ronald L., to Motorola, Inc. Gated DC coupled J-K flip-flop. 3,440,449, 4-22-69, Cl. 307-291.
Prier, Walter R. Adapter unit for a fluid filter and a fluid cooler. 3,463,317, 8-26-69, Cl. 210-152.
Priese Werner K., to Hills-McCanna Company. Fluid actuated diaphragm valve. 3,451,423, 6-24-69, Cl. 137-556.
Priese, Werner K., to Hills-McCanna Company. Ball valve assembly. 3,425,663, 2-4-69, Cl. 251-180.
Priese, Werner K., to Hills-McCanna Company. Ball valve. 3,462,120, 8-19-69, Cl. 251-315.
Priese, Werner K.; and Davies David J., to Hills-McCanna Company, mesne. High pressure ball valve. 3,445,087, 5-20-69, Cl. 251-172.
Priese, Werner K.; and Davies, David J., to Hills-McCanna Company. Ball valve with seats for journalled ball. 3,480,253, 11-25-69, Cl. 251-174.
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Priestley, Eric, to Elliott Brothers (London) Limited. Stabilization systems. 3,469,550, 9-30-69, Cl. 114-66.5
Priestley, Hill M., to Lever Brothers Company. Tertiary organophosphine oxides. 3,467,717, 9-16-69, Cl. 260-606.5
Priestley, Philip Thorpe; Sebborn, Walter Sidney; and Selman, Raymond Frank William, to Eastman Kodak Company. Device for the determination of the concentration of a chemical compound in a liquid. 3,436,190, 4-1-69, Cl. 23-253.
Priestley, Ronald. Gas-liquid contact packing sheets. 3,466,019, 9-9-69, Cl. 261-112.
Priewe, Hans; Gutsche, Klaus; Langecker, Hedwig; Gibian, Heinz; Gerhards, Erich; and Harwart, Alois, to Schering A.G. Certain 2-benzenesulfonamido-5-oxypyrimidines. 3,431,263, 3-4-69, Cl. 260-256.5
Priewe, Hans; Rahtz, Dieter; Hempel, Reinhard; and Richter, Helmer, to Schering A.G.1-Hydroxy or chloro benzyl-2[-4 methyl, ethyl or hydroxyethyl-piperazino methyl] benzimiazoles. 3,423,413, 1-21-69, Cl. 260-268.
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Prince, David C. Data reading system. 3,463,289, 8-26-69, Cl. 197-1.
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Princz, Ferdinand; and Scott, William, to T.M.M. (Research) Limited. Textile combing machines. 3,426,609, 2-11-69, Cl. 74-394.
Prindell, Stuart M., Jr.; Perry, Malcolm R.; Martin, Vincent W.; and Fritsch, Daniel F., to Hamilton Watch Company. Elapsed time indicator. 3,479,815, 11-25-69, Cl. 58-145.
Prindle, Charles; and Feinman, Harvey M., to Robintech Incorporated. Eddy current flaw detector utilizing helical sensing coils surrounding the test path. 3,444,459, 5-13-69, Cl. 324-40.
Prine, David W., to Magnaflux Corporation. Microwave dielectric material testing system. 3,482,160, 12-2-69, Cl. 324-58.5
Pringle, Bruce G., to Northern Electric Company, Limited. Time relay and pulse generator circuit. 3,423,600, 1-21-69, Cl. 307-132.
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Radlmann, Eduard; Wolf, Gerhard Dieter; Wieden, Horst; and Nischk, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Polyarylene disulfimide sulfones. 3,481,885, 12-2-69, Cl. 260-2.2
Radnor, Richard Rishel, to General Electric Company. Power amplifier. 3,471,720, 10-7-69, Cl. 307-314.
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Radtke, Edward William, to United Aircraft Corporation. Pneumatic air temperature control for aircraft cabins. 3,463,390, 8-26-69, Cl. 236-13.
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Raeber, Victor, to Ateliers de Constructions Mecaniques de Vevey S. A. Method and means for controlling the double adjustment of a hydraulic machine. 3,447,550, 6-3-69, Cl. 137-16.
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Raidel, John E. Multiple joint tandem suspensions. 3,471,165, 10-7-69, Cl. 280-104.5
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Rajnoha, Jaroslav; and Bures, Ladislav, to Vyrkumny ustav Bavlnarsky. Apparatus for spinning of fibrous material. 3,455,097, 7-15-69, Cl. 57-58.95
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Rakestraw, Robert H. Conveying and orientation apparatus particularly for tobacco leaves. 3,439,793, 4-22-69, Cl. 198-33.
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Ransom, Paul R.; and Dorsey, Ted C. Electrical test probe having an offset tip and line of sight therefor. 3,469,185, 9-23-69, Cl. 324-72.5
Ransome, John Gooch, to Pressed Steel Fisher Limited. Process for the electro-deposition of paint coating onto article having predeposited porous zinc layer. 3,470,072, 9-30-69, Cl. 204-181.
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Raschke, Herbert A., to Bullard, E. D. Hat mounted radio antenna. 3,470,558, 9-30-69, Cl. 343-718.
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Ratliff, Harvey L., Jr., to Jetru Inc. Wide-angle stereoscopic picture element and viewer. 3,439,972, 4-22-69, Cl. 350-131.
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Rau, Ben W. Lighting apparatus. 3,457,662, 7-29-69, Cl. 40-86.
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Kaplan, Sam H., 3,420,150.
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Rauth, Robert G., to Flavor-Pict, Inc., mesne. Fresh corn trimming and husking machine. 3,451,397, 6-24-69, Cl. 130-5.
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Riggs, Dean D., to Electron Ohio, Inc. Magnetic trace recorder with trace-following hall effect readout head. 3,425,047, 1-28-69, Cl. 340-174.1

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Rigondaud, Guy Frederic, to Societe Le Foyer et Cie. Fountain-pens closing devices by means of a cap. 3,459,485, 8-5-69, Cl. 401-246.

Rigor, Herbert W. Pill dispensing container. 3,480,182, 11-25-69, Cl. 221-288.

Rigrod, William W., to Bell Telephone Laboratories, Incorporated. Multiple pass optical cell for laser amplifier. 3,436,665, 4-1-69, Cl. 330-4.3

Rigrod, William W., to Bell Telephone Laboratories, Incorporated. Laser mode selection. 3,466,565, 9-9-69, Cl. 331-94.5

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Rigsbee, William E.; and Lake, Lelyn D., to Mallory, P. R., & Co., Inc. Muting device. 3,453,547, 7-1-69, Cl. 325-392.

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Rigterink, Raymond H., to Dow Chemical Company, The. Thio-, sulfinyl-, and sulfonylpyridyl phosphorates and phosphorothioates, compositions therof, and methods for parasite control. 3,478,148, 11-11-69, Cl. 424-200.

Riha, James G.; Trevorrow, La Verne E.; and Steindler, Martin J., to United States of America, Atomic Energy Commission. Separation of ruthenium and plutonium by a lithium fluoride sorption technique. 3,458,291, 7-29-69, Cl. 23-337.

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Riley, James E.; and Williams, Billy B., to Texas Instruments, Incorporated. Method of making a capacitor by vacuum depositing manganese oxide as the electrolytic layer. 3,432,918, 3-18-69, Cl. 29-570.

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Riley, Joseph J. Overload control for silicon diodes in resistance welders and the like. 3,484,651, 12-16-69, Cl. 317-22.

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Riley, Joseph V., to International Business Machines Corporation. Maximizing or controlling the gain of sonic delay lines. 3,460,243, 8-12-69, Cl. 29-600.

Riley, Lloyd D. Cable operated conveyor and freezing box structure. 3,464,229, 9-2-69, Cl. 62-381.

Riley, Orey L.; and Mamoulides, John M., to Louisiana Hydrolec, Incorporated. Apparatus for heating and recovering underground oil. 3,420,301, 1-7-69, Cl. 166-60.

Riley, Orvel K., to Surgical Eng. and Research Corp. Cooling apparatus for dental anesthetization. 3,439,681, 4-22-69, Cl. 128-401.

Riley, Randolph Stewart. Utility pin. 3,456,304, 7-22-69, Cl. 24-162.

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Robinson, Thomas R., Jr., to Marlin Firearms Company, The. Firearm with non-binding manual bolt action. 3,426,465, 2-11-69, Cl. 42-16.
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Romano, Adriana. Device for sensing the presence of a liquid or vapor in the atmosphere. 3,486,037, 12-23-69, Cl. 307-118.

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Romanova, Stepanida Trofimovna: *See—*
Alferov, Alexandr Vasilievich; Babitsky, Boris Davidovich; Vydrina, Tatiana Konstantinovna; Dolgoplosk, Boris Alexandrovich; Kormer, Vitaly Abramovich; Krol, Vladimir Alexandrovich; Lobach, Mark Iosifovich; Mushina, Evgenia Aronovna; Parfenova, Gali Alexandrovna; Romanova, Stepanida Trofimovna; Sakharova, Elena Vladimirovna; Tinyakova, Elena Ivanovna; and Sharaev, Oleg Konstantinovich,3,468,866.

Romanowski, Thomas A.; and Rush, Charles J., to United States of America, Atomic Energy Commission. High-voltage pulsing apparatus for a spark chamber. 3,447,032, 5-27-69, Cl. 315-240.

Romansky, John, to McGraw-Edison Company. Shirt unloader and delivery apparatus. 3,464,602, 9-2-69, Cl. 223-57.

Romanzi, Louis, Jr.; and Epstein, Harry. Vehicle signal lamp system. 3,425,034, 1-28-69, Cl. 340-81.

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Romberg, Francis M., to Mobil Oil Corporation. Time break corrector for marine seismic signals. 3,432,805, 3-11-69, Cl. 340-15.5

Romberger, Floyd T., Jr. Portable bath unit. 3,484,872, 12-23-69, Cl. 4-6.

Romberger, Russell R.: *See—*
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Rombusch, Konrad; and Seifert, Friedrich, to Chemische Werke Huls Aktiengesellschaft. Nonyellowing antielectrostatic molded masses and molded bodies. 3,438,955, 4-15-69, Cl. 260-93.7
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Romeo, Philip L., Sr., to Engelhard Industries, Inc. Nitric acid tail gas purification. 3,425,803, 2-4-69, Cl. 23-162.
Romeo, Vincent P., to USM Corporation. Component inserters. 3,429,170, 2-25-69, Cl. 72-325.
Romeo, Vincent P., to USM Corporation. Means for inserting and deflecting components. 3,443,298, 5-13-69, Cl. 29-203.
Romeo, Vincent P., to USM Corporation. Automatic board unloader. 3,458,072, 7-29-69, Cl. 214-310.
Romer, Arnold; and Rinio, Johannes, to Maschinenfabrik und Eisengiesseri A. Beien. Scraper-chain conveyor, particularly face conveyor, suitable for cooperation with a getting machine. 3,458,235, 7-29-69, Cl. 299-34.
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Rommel, Marjorie A.; and Dayan, Victor H., to United States of America, National Aeronautics and Space Administration. Hydrogen leak detection device. 3,472,629, 10-14-69, Cl. 23-254.
Rommerts, Jan Willem; and Westerhof, Thomas Jan, to U.S. Philips Corporation, mesne. Method of adjusting power output of a reflex klystron employing moveable permanent magnets and a reflex klystron with moveable magnets for adjusting power output. 3,444,420, 5-13-69, Cl. 315-5.18
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Rona, Jean, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Pneumatic or hydraulic delay device. 3,437,100, 4-8-69, Cl. 137-81.5
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Ronceray, Robert Andre Marcel, deceased0 (by Ronceray, Pierre Robert0Ronceray, Lena Sarah,0Ronceray, Andree Jacqueline Laure; and0Ronceray, Francoise Monique Mary; heirs). Elevator-cooler apparatus for pulverized materials such as foundry sands. 3,432,940, 3-18-69, Cl. 34-189.
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Ronci, William L., to Bendix Corporation, The. Passive circuit including a thermistor for provid- ing high level voltage variations in response to low level current variations. 3,440,536, 4-22-69, Cl. 324-106.
Ronco, Karl; and Hari, Istvan, to Ciba Limited. Dioxazine dyestuffs having in 6 and 13 position a heterocyclic acylamino group. 3,480,625, 11-25-69, Cl. 260-246.
Ronco, Karl; and Mueller, Willy, to Ciba Limited. Monoazodyestuffs. 3,438,966, 4-15-69, Cl. 260-204.
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Rondelet, Jacques, to Recherche et Industrie Therapeutiques R.I.T. Carboxymethyl derivatives of tetracycline antibiotics. 3,456,007, 7-15-69, Cl. 260-559.
Ronden, Clifford P., to Cupples Container Company. Extrusion die. 3,471,899, 10-14-69, Cl. 18-14.
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Ronden, Clifford P.; and Yu, John, to Dow Chemical Company, The. Three stage suspension polymerization process for vinyl aryl monomers. 3,425,966, 2-4-69, Cl. 260-2.5
Ronden, Clifford P.; and Yu, John, to Dow Chemical Company, The, mesne. Self-extinguishing aryl vinyl polymer products containing perchloropentacyclodecane and tris (2,3-dibromopropyl) phosphate. 3,445,404, 5-20-69, Cl. 260-2.5
Ronden, Clifford P.; and Yu, John, to Dow Chemical Company, The. Suspension polymerization process for vinyl aryl monomers. 3,462,380, 8-19-69, Cl. 260-2.5
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Rood, William E., Jr.; McKinley, James E.; and Gray, James H. Air wash cotton cleaner and transportation system. 3,425,097, 2-4-69, Cl. 19-203.
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Roods, John F.; and Buschman, Jerome A., to McGraw-Edison Company. Combination power tool. 3,484,917, 12-23-69, Cl. 29-27.
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Roosa, Vernon D. Internal-combustion engine and fuel injection system therefor. 3,450,121, 6-17-69, Cl. 123-140.
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Roosa, Vernon D. Nonleak-off fuel injection nozzle. 3,451,626, 6-24-69, Cl. 239-533.
Roosa, Vernon D. Fuel supply system. 3,477,418, 11-11-69, Cl. 123-140.
Roosa, Vernon D. Fuel injection nozzle. 3,477,648, 11-11-69, Cl. 239-533.
Roosevelt, Julian K. Running lights construction for mounting on top of a mast. 3,431,408, 3-4-69, Cl. 240-7.5
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Root, Lawrence D.; and Davis, Wilbern F., to Honeywell Inc. Stacking device. 3,442,507, 5-6-69, Cl. 271-87.
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Roper, Ralph E., to Wallace Expanding Machines, Inc. Expander apparatus. 3,443,413, 5-13-69, Cl. 72-399.
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Ropp, Richard C.; and Graff, Eugene A., to Westinghouse Electric Corporation. Efficient preparation of rare-earth metal oxalate. 3,420,861, 1-7-69, Cl. 260-429.2
Ropp, Richard C.; and Gritz, Edward E., to Westinghouse Electric Corporation. Method for preparing europium activated yttrium oxide and gadolinium oxide phosphors. 3,449,258, 6-10-69, Cl. 252-301.4
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Ros, Mirko R., deceased0 (by Ros, Erika E.0Ros, Franziska J.0Ros, Cornelia E.; sole heirs). Tensioning apparatus for prestressed concrete constructions. 3,464,173, 9-2-69, Cl. 52-173.
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Rosaen, Nils O., to Universal Filters, Inc. mesne. Backwash means for dual filter elements. 3,425,558, 2-4-69, Cl. 210-108.
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Rosaen, Nils O., to Norco Products, Incorporated. Magnetic fluid pressure control. 3,448,751, 6-10-69, Cl. 137-81.5
Rosaen, Nils O., to Parker-Hannifin Corporation, mesne. Fluid filter. 3,468,420, 9-23-69, Cl. 210-90.
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Rosenvold, Leo. Ball game device. 3,438,632, 4-15-69, Cl. 273-118.
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Roshon, John R.; and Green, Charles E., to United States of America, Navy. Pressure vessel for calibrating sonar transducers. 3,466,924, 9-16-69, Cl. 73-1.
Rosica, Gabriel A.; and Daigle, Louis L., to United Aircraft Corporation. Apparatus for eliminating cable effects from capacitive transducers. 3,486,108, 12-23-69, Cl. 324-61.
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Rosin, Seymour; Gelles, Rubin; and Eichenthal, Judah, to United States of America, National Aeronautics and Space Administration. Wide angle long eye-relief eyepiece. 3,472,577, 10-14-69, Cl. 350-189.
Rosin, Seymour; and Kaestner, Paul T., to Bell Aerospace Corporation. Optical system for visual flight simulation. 3,459,465, 8-5-69, Cl. 350-49.
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Roskopf, Donald L. Portable boat dock fenders. 3,449,917, 6-17-69, Cl. 61-48.
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Rosner, Leonard A. Bifurcated hosiery with suspension means. 3,466,667, 9-16-69, Cl. 2-240.
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Rosner, Michael W.; Boileau, Louis D.; and Greipel, Frank J. Ice channel cutter. 3,468,277, 9-23-69, Cl. 114-42.
Rosner, Ortwin; Schlegel, Franz; and Sebestyen, Nikolaus, to Optische Werke G. Rodenstock. Image flattening optical system for electronic image converting tube. 3,429,997, 2-25-69, Cl. 178-7.86
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Ross, Bernard A. Pressure-sensitive electrical control device. 3,463,990, 8-26-69, Cl. 318-335.
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Ross, Charles W. Shield with magnetic connecting ring. 3,449,965, 6-17-69, Cl. 74-18.1
Ross, Charles W., to Leeds & Northrup Company. Error adaptive control system. 3,454,749, 7-8-69, Cl. 235-151.1
Ross, Charles W., to Leeds & Northrup Company. Method and apparatus for maximizing the output of a rotary kiln. 3,483,363, 12-9-69, Cl. 235-151.1
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Ross, David S., to Hydro-Clear Corporation. Apparatus and method of filtering solids from a liquid effluent. 3,459,302, 8-5-69, Cl. 210-80.
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Ross, Donald K., to Ross and Baruzzini, Inc. Pendulum drive apparatus. 3,424,960, 1-28-69, Cl. 318-128.
Ross, Donald R., Jr., to U-S Electric Manufacturing Company. Trolley conductor guard. 3,439,131, 4-15-69, Cl. 191-25.
Ross, Donald S., 1/2 to University of Strathclyde. Femoral pins. 3,459,180, 8-5-69, Cl. 128-92.
Ross, Edgar A., to Southern Weaving Company. Resilient foldable woven electrical cable and method. 3,476,870, 11-4-69, Cl. 174-69.
Ross, Edgar A.; and Rask, Stanley, to Southern Weaving Company. Woven circuit device. 3,479,565, 11-18-69, Cl. 317-101.
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Ross, James A.; and Bogart, Theodore F., Jr., to LTV Ling Altec, Inc. Controlled deceleration system for vibration apparatus. 3,463,984, 8-26-69, Cl. 318-127.
Ross, James W., to Corning Glass Works. Organic liquid ion-exchanger electrode and method of using same. 3,429,785, 2-25-69, Cl. 204-1.
Ross, James W., to Orion Research, Inc. Organic liquid ion-exchanger electrode. 3,438,886, 4-15-69, Cl. 204-195.
Ross, James W., to Corning Glass Works. Electrode with organic liquid ion-exchanger retained by membrane. 3,445,365, 5-20-69, Cl. 204-195.
Ross, James W., to Orion Research Inc. Anion sensitive electrode. 3,483,112, 12-9-69, Cl. 204-195.
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Ross, John J. Combination shrimp trawl and rolling rig. 3,458,947, 8-5-69, Cl. 43-9.
Ross, John M., Jr.; and Levesque, Paul E., to FMC Corporation. Non-foaming wetting agents. 3,449,261, 6-10-69, Cl. 252-351.
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Ross, Keith, to Davy and United Engineering Company Limited. Forging. 3,473,364, 10-21-69, Cl. 72-421.
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Ross, Nicholas V., to Ajax Magnethermic Corporation. Apparatus for induction heating of slabs. 3,485,986, 12-23-69, Cl. 219-10.69
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Ross, Richard J.; and Fohlen, George M., to Kaiser Aluminum & Chemical Corporation. Process for producing methylenediamilines. 3,478,099, 11-11-69, Cl. 260-570.
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Ross, Robert H.; Roth, Willard; Larko, Robert; and Swartzfager, Walter, to Sunbeam Equipment Corporation. Aluminum annealing furnace. 3,447,790, 6-3-69, Cl. 263-28.
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Ross, Sherwood B. Operating-lever console for a gearshift mechanism or the like. 3,473,404, 10-21-69, Cl. 74-491.
Ross, Sidney D.; Petersen, Raymond C.; and Finkelstein, Manuel, to Sprague Electric Company. Alkoxylation of N-methyl-N-hydrocarbylamides. 3,459,643, 8-5-69, Cl. 204-59.
Ross, Stanley E.; Mazzone, Charles P.; and Russo, Carl J., to Stevens, J. P., & Co., Inc. Apparatus for texturizing yarns. 3,441,990, 5-6-69, Cl. 28-1.
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Rossi, Guido, to Generay-Generale Radiologica S.p.A. Device for tilting, lifting and lowering the patient-supporting board of an X-ray table. 3,441,266, 4-29-69, Cl. 269-323.
Rossi, Jorge A. Releasable carrying means for a key. 3,481,169, 12-2-69, Cl. 70-408.
Rossi, Lawrence T.; and Wrinkle, Raymond L., to American Meter Company, mesne. Calibrator. 3,427,890, 2-18-69, Cl. 74-116.
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Rotch, Abbott L., to EG & G, Inc. Electric-discharge system having automatically controlled power supply. 3,432,725, 3-11-69, Cl. 315-241.
Roth, Adrian Werner, to Fabrik Elektrischer Apparate Sprecher & Schuh A.G. Switching circuit for high-voltage direct-current. 3,430,062, 2-25-69, Cl. 307-136.
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Roth, Charles T., to Xerox Corporation. Field flattener scanning means. 3,485,546, 12-23-69, Cl. 350-7.
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Rowe, Harbert D., to Lockheed Aircraft Corporation. Adjustable seat. 3,471,195, 10-7-69, Cl. 297-101.
Rowe, Horace N., to Rowe Industries, Inc. Coil loaded antenna. 3,461,455, 8-12-69, Cl. 343-749.
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Rowe, Snowden, to Ohmart Corporation, The. Method of measuring thickness of a film material. 3,438,047, 4-8-69, Cl. 346-1.
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Rowell, Albert T., Sr. Method and apparatus for stereoscopic photography. 3,437,406, 4-8-69, Cl. 352-60.
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Rowell, Gar Lee. Whirling-whistling toys. 3,461,603, 8-19-69, Cl. 46-52.
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Rowell, William G., to Technical Marketing Associates, Inc. Self-checking detector. 3,421,156, 1-7-69, Cl. 340-228.
Rowell, William G. Electrical timing circuit. 3,422,279, 1-14-69, Cl. 307-132.
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Rowlands, David H., to Scovill Manufacturing Company. Three-piece automatic lock slider. 3,427,692, 2-18-69, Cl. 24-205.14
Rowlands, Derek; and Charterton, Roy. Pallets formed from plastics material. 3,467,032, 9-16-69, Cl. 108-51.
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Ruben, Paul L., to Eastman Kodak Company. Triplet-type objective lens. 3,443,863, 5-13-69, Cl. 350-226.
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Ruben, Samuel. Method of making rechargeable cell having ionically permeable gel and electrode therefor. 3,455,738, 7-15-69, Cl. 136-6.
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Ruchardt, Hugo; Hargasser, Hans; and Meer, Winfried, to Siemens Aktiengesellschaft. Transistor for operation in regulating circuits with emitter base junction of sawtooth, concave, or wedge shape configuration. 3,480,845, 11-25-69, Cl. 317-234.
Ruchser, Erich, to Herion, Erich. Fluid-pressure valve. 3,424,427, 1-28-69, Cl. 251-30.
Rucins, Erik H.; and Guernsey, Robert W., to General Motors Corporation. Internal combustion engine ignition spark vacuum advance mechanism delay system. 3,476,094, 11-4-69, Cl. 123-117.1
Ruckborn, Gunther, to Linde Aktiengesellschaft. Process and installation for the removal of easily condensable components from gas mixtures. 3,466,884, 9-16-69, Cl. 62-13.
Ruckborn, Gunther; Donhauser, Friedl; and Huber, Johann, to Linde Aktiengesellschaft. Double-flow regenerator. 3,429,135, 2-25-69, Cl. 62-13.
Ruckel, Frank G.; and Fox, David, to Alarm Lock Corporation. Jam resistant door lock. 3,464,728, 9-2-69, Cl. 292-92.
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Rucoba, Robert; and Sievert, William C., to Inland Steel Company. Chemical treatment of metal surface to improve paint adherence. 3,445,298, 5-20-69, Cl. 148-6.16

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Rudaz, Albi, to Societe Anonyme des Ateliers de Secheron. Device for the feed of an electric arc welding set from three-phase current. 3,463,903, 8-26-69, Cl. 219-131.
Rudd, Charles F.; and Obergefell, Ronald F., to Addressograph-Multigraph Corporation. Selector switch mechanism. 3,430,010, 2-25-69, Cl. 200-46.
Rudd, Milo O.; and Woronoff, Alexander M., to Univis, Inc. Method for processing of ophthalmic lens. 3,431,688, 3-11-69, Cl. 51-284.
Rudd, Wallace C., to American Machine & Foundry Company. Welding metal parts. 3,427,427, 2-11-69, Cl. 219-107.
Rudd, Wallace C.: *See—*
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Ruddick, Maurice, to Burnett & Rolfe Limited. Tipplers for turning over beer kegs and like containers. 3,433,371, 3-18-69, Cl. 214-1.
Ruddick, Maurice, to Burnett & Rolfe Limited. Apparatus for processing beer kegs or like containers. 3,454,018, 7-8-69, Cl. 134-57.
Ruddick, Maurice, to Burnett & Rolfe Limited. Apparatus for washing beer kegs or like containers. 3,470,891, 10-7-69, Cl. 134-57.
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Ruddock, Kenneth A., to Spectra-Physics, Inc. Optical ranging system using a beat frequency responsive photomultiplier. 3,446,971, 5-27-69, Cl. 250-207.
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Rudisch, Walter E.; and Gross, Frank D., to Pannier Corporation, The. Embossing machine. 3,441,824, 4-29-69, Cl. 318-265.
Rudkin, Frank, to Lake & Elliot Limited. Hydraulic lifting jack. 3,464,204, 9-2-69, Cl. 60-52.
Rudkovsky, David Moiseevich; and Imjanitov, Naum Oolomonovich, to Vsesojuzny Nauchno-Issledovateljsky Institute Neftekhimicheskikh Protsessov. Method of production of unsaturated acids. 3,462,481, 8-19-69, Cl. 260-514.
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Rudloff, Bernard. Process for pneumatically tearing and parting fiber flocks. 3,453,355, 7-1-69, Cl. 264-115.
Rudner, Bernard; and Brumfield, Philip E., to Koppers Company, Inc. Polybenzothiazoles. 3,424,720, 1-28-69, Cl. 260-47.
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Rudnick, Norman, to Gulton Industries, Inc. Piezoelectric ceramic transducer. 3,474,268, 10-21-69, Cl. 310-8.5
Rudnitzki, Alexis J.; and Templer, David I., to Velsicol Chemical Corporation. Separation of tetrachloroterephthalic acid derivatives. 3,478,086, 11-11-69, Cl. 260-475.
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Rudolph, Curtis C., 1/2 to Burk, James C. Crosslane buffing machine. 3,428,986, 2-25-69, Cl. 15-99.
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Rudolph, Hans; and Prater, Klaus, to Farbenfabriken Bayer Aktiengesellschaft. Additives for preventing the flow of polyester moulding and coating compositions. 3,484,401, 12-16-69, Cl. 260-22.
Rudolph, Luther D.; Blackwell, Paul K., Jr.; and Hair, Hugh A., to Research Corporation. High-speed non-destructive read out contents addressable memory and elements therefor. 3,445,821, 5-20-69, Cl. 340-172.5
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Rudolph, Otfried, to VEB Druckmaschinenwerk Planeta. Sheet gripping control mechanism for printing machines. 3,463,484, 8-26-69, Cl. 271-82.
Rudolph, Otfried; and Lucius, Gunter, to VEB Druckmaschinenwerk Planeta. Drive mechanism for sheet turning device in multi-color printing machines. 3,455,547, 7-15-69, Cl. 271-82.
Rudomanski, Andrew C.; and Eufusia, Eugene A., to Optical Coating Laboratory, Inc. Optical null spectrophotometer. 3,437,411, 4-8-69, Cl. 356-89.
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Rudy, Charles E., Jr., to Chevron Research Company. Removal of iron contaminants from hydrocarbon oils. 3,436,339, 4-1-69, Cl. 208-252.
Rudy, Erland W., to Bendix Corporation, The. Circuit for supplying writing signals for use with electrosensitive paper recorders. 3,441,946, 4-29-69, Cl. 346-74.
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Rudy, Thomas P.; Nakagawa, Toshio W.; and Greendorfer, Joseph M., to United Aircraft Corporation. Self-regulating coating process for propellant materials. 3,480,488, 11-25-69, Cl. 149-7.
Rudzik, Allen D., to Dow Chemical Company, The. Method of treating symptoms of pain and inflammation. 3,449,501, 6-10-69, Cl. 424-273.
Rudzik, Allen D., to Dow Chemical Company, The. Analgesic and antitussive methods and compositions employing trans-(L)-3-(o-chlorophenyl)-1,6- dimethyl-5-phenyl-1,4,5,6-tetrahydro-astriazine. 3,485,921, 12-23-69, Cl. 424-249.
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Rudzitis, Karl; Castellano, John; and Wolz, Rudolph G., to Viewlex, Inc. Film strip adapter. 3,476,475, 11-4-69, Cl. 353-120.
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Ruegg, Rudolf; and Schmialek, Peter, to Hoffmann-La Roche Inc. Method of hindering the metamorphosis and reproduction of arthropodes. 3,429,970, 2-25-69, Cl. 424-333.

Ruegg, Rudolf; and Schwieter, Ulrich, to Hoffmann-La Roche, Inc. Process for making the triaryl phosphonium salt of vitamin A alcohol. 3,466,335, 9-9-69, Cl. 260-606.5

Ruegg, Rudolf: *See—*
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Ruegsegger, Walter. Skier training apparatus which allows for transverse and longitudinal movement. 3,475,021, 10-28-69, Cl. 272-57.

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Ruekberg, Herbert S., to Continental Can Company, Inc. Tandem blow molding apparatus. 3,456,290, 7-22-69, Cl. 18-5.

Ruekberg, Herbert S., to Continental Can Company, Inc. Apparatus for electrostatic molding. 3,478,387, 11-18-69, Cl. 18-5.

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Ruetschle, Rudolph H., to Harris-Intertype Corporation. Sheet separator mechanism. 3,471,141, 10-7-69, Cl. 271-26.

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Ruff, John D.; and Wheeler, Phillip R. Variable capacity centrifugal heat pump. 3,447,335, 6-3-69, Cl. 62-159.

Ruff, John D.; and Wheeler, Phillip R. Centrifugal compressor and wide range of capacity variation. 3,449,922, 6-17-69, Cl. 62-160.

Ruff, Robert Bernard, to Du Pont de Nemours, E. I., and Company. Process for composite color image reproduction by stratum transfer. 3,481,736, 12-2-69, Cl. 96-28.

Ruff, Wolfram; and Boucher, Heinz, to Alfred Teves Maschinen- und Armaturenfabrik K. G. Method of electroplating a bright, adherent chromium coating onto cast-iron. 3,421,986, 1-14-69, Cl. 204-36.

Ruff, Wolfram; and Boucher, Heinz, to Teves, Alfred, KG. Electrolyte and process for the electrodeposition of cadmium. 3,442,776, 5-6-69, Cl. 204-50.

Ruffieux, Leon, to Aktiengesellschaft Brown, Boveri & Cie. Parallel switching device. 3,428,821, 2-18-69, Cl. 307-87.

Ruffing, Alphonse P., to Berg Equipment Corporation. Cattle feeding system. 3,422,799, 1-21-69, Cl. 119-56.

Ruffles, Philip Charles; and Williamson, Douglas Herbert, to Rolls-Royce Limited. Gas turbine engine with pressure exchanger. 3,483,697, 12-16-69, Cl. 60-39.45

Ruffley, Morris F., Jr., to Coca-Cola Bottling Works Company, The. Rack for cylindrical containers. 3,436,093, 4-1-69, Cl. 280-47.27

Ruffner, Lawrence J., to Erie Technological Products, Inc. Capacitor with terminal means. 3,467,898, 9-16-69, Cl. 317-258.

Ruffo, Angelo P., to Johnson & Johnson. Corrugated Diaper. 3,481,337, 12-2-69, Cl. 128-284.

Rufli, Anton, to Inventio Aktiengesellschaft. Jolt-free starting arrangement for electrical drive having a mechanical brake. 3,486,101, 12-23-69, Cl. 318-431.

Ruger, Frank; Guhne, Hans-Peter; and Lebig, Herbert, to Daimler-Benz Aktiengesellschaft. Internal combustion engine in which cooling medium is supplied from a primary cooling installation for the engine cooling to a secondary cooling installation for the precompressed combustion air. 3,442,258, 5-6-69, Cl. 123-41.31

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Ruggiero, Edward M., to United Aircraft Corporation. Method for bonding silicon semiconductor devices. 3,461,462, 8-12-69, Cl. 29-492.

Ruggles, Kay L.; Gunnerson, Dale B.; and Clark, Howard S., to American Standard, Inc., mesne. Method for manufacturing a sink and vanity top combination. 3,433,860, 3-18-69, Cl. 264-71.

Ruggles, Norman A.; and Kaplan, Irving I., to Westinghouse Electric Corporation. Contiguous filter bank using shared resonators. 3,461,407, 8-12-69, Cl. 333-6.

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Ruiz, Oscar F. Apparatus for separating tortillas and the like from forming roll. 3,429,282, 2-25-69, Cl. 107-12.

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Ruiz, Oscar F. Dough perforating machine. 3,451,358, 6-24-69, Cl. 107-15.

Ruiz, Oscar F. Dough directing funnel. 3,467,030, 9-16-69, Cl. 107-9.

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Russell, Robert E.; and McVey, Eugene S., to Basic Incorporated. Multi-phase rectifier with inherent phase balance. 3,447,061, 5-27-69, Cl. 321-5.
Russell, Robert G.; and Cunningham, Cecil R., to Owens-Corning Fiberglas Corporation. Method and apparatus for handling strand. 3,469,796, 9-30-69, Cl. 242-47.13
Russell, Robert J., to Texas Instruments, Incorporated. Method of manufacturing hard-faced metal products. 3,434,200, 3-25-69, Cl. 29-527.
Russell, Robert J., to Texas Instruments, Incorporated. Composite printing plate with a magnesium alloy bonded to an aluminum layer. 3,475,140, 10-28-69, Cl. 29-183.5
Russell, Robert J.; and Cable, Joseph Wesley, to Texas Instruments, Incorporated. Inductive heating of strip material. 3,444,346, 5-13-69, Cl. 219-10.61
Russell, Roger W.; and Strong, Doyle L., to Kimberly-Clark Corporation. Papermaking machine. 3,440,137, 4-22-69, Cl. 162-306.
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Russell, Sid, to United Aircraft Corporation. Electrolysis utilizing thin film electrolytes. 3,463,709, 8-26-, Cl. 204-60.
Russell, Theodore A., to Eastman Kodak Company. Multiple coating apparatus. 3,474,758, 10-28-69, Cl. 118-412.
Russell, Theodore B. Liquid measuring dispenser. 3,451,446, 6-24-69, Cl. 141-319.
Russell, Theodore B. Golf ball pick up device. 3,462,184, 8-19-69, Cl. 294-19.
Russell, Thomas J., to Alfred Electronics. Compressionally-loaded spring forming DC connection between the outer and inner conductor of a tem-mode transmission line. 3,423,702, 1-21-69, Cl. 333-97.
Russell, Thomas J., to Alfred Electronics. Continuously variable high-frequency transmission line attenuator using variably biased microwave diodes and method therefor. 3,453,564, 7-1-69, Cl. 333-81.
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Russi, Joseph N., to Sylvania Electric Products, Inc. Decorative incandescent lamp. 3,462,632, 8-19-69, Cl. 313-110.
Russinik, Michael R., to Gray Company, Inc. Fluid selection system. 3,429,508, 2-25-69, Cl. 239-126.
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Rutkoski, Joseph E., to Pullman Incorporated. Floor board support structure. 3,442,224, 5-6-69, Cl. 105-368.
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Ryan, Charles Francis; and Crochowski, Raymond John, to Rohm & Haas Company. Acrylic modifiers which impart impact resistance and transparency to vinyl chloride polymers. 3,426,101, 2-4-69, Cl. 260-876.
Ryan, Charles Francis; and Grochowski, Raymond John, to Rohm & Haas Company. Acrylic modifiers which impart impact resistance and transparency to vinyl chloride polymers. 3,448,173, 6-3-69, Cl. 260-876.
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Ryan, John W.; Frederick, Phyllis; Golden, Michael E.; and Zimmerman, Charles R., to Mattel, Inc. Game device. 3,456,944, 7-22-69, Cl. 273-1.
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Ryan, John W.; Kossoff, Joseph; Mucciante, Louis L.; and Lemkin, Jack L., to Mattel, Inc. Head construction for a figure toy. 3,448,540, 610-69, Cl. 46-164.
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Ryan, John W.; MacMeekin, Robert A.; and Meggs, Daniel Henry, to Mattel, Inc. Self-propelled crawling toy. 3,475,854, 11-4-69, Cl. 46-206.
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Ryan, John W.; and May, Richard L., to Mattel, Inc. Method of making animated figure toys having embedded connector means and a thickened area. 3,440,714, 4-29-69, Cl. 29-526.
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Ryan, Robert R.; and Werner, Leonard G., to St. Louis Diecasting Corporation. Shot speed control valve and method of controlling the speed of a shot cylinder ram. 3,463,188, 8-26-69, Cl. 137-599.
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Ryckaert, Andre; and Gilain, Jacques, to Solvay & Cie. Oxychlorination using a deacon catalyst supported on alumina α-monohydrate. 3,454,663, 7-8-69, Cl. 260-659.
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Ryden, Arthur, to Dutch, Philip R. Computer for recordation of a credit transaction. 3,469,240, 9-23-69, Cl. 340-172.5
Ryder, Charles F. Imbedded electrical fitting and cord assembly. 3,482,263, 12-2-69, Cl. 339-102.
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Safford, Franklin C.; McGrath, Robert A.; and Loveless, Edgar Lloyd, to Drever Company. Roller pressure high intensity quench systems. 3,420,083, 1-7-69, Cl. 72-201.
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Santilli, Arthur A., to American Home Products Corporation. 4-Amino-2-aryl-6-carbamoyl-7,8-dihydro-7-oxo-8- pteridineacetamides and 4-amino-2-aryl-6- carbamoyl-7,8-dihydro-7-oxo-8-pteridineacetic acid esters. 3,449,344, 6-10-69, Cl. 260-251.5
Santilli, Arthur A.; and Kim, Dong H., to American Home Products Corporation. 1-[2-Substituted-6-arylsulfonamidopyrimidin-4-yl] pyridinium hydroxide inner salts. 3,452,018, 6-24-69, Cl. 260-256.5
Santilli, Arthur A.; and Osdene, Thomas S., to American Home Products Corporation. N-[O-(2-oxazolin-2yl)phenyl]alkyl or aryl sulfonamides and intermediates in the production thereof. 3,452,037, 6-24-69, Cl. 260-307.
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Santilli, Ermanno. Annular saw with circular safety guard. 3,438,410, 4-15-69, Cl. 143-44.

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Sarah, Thomas F., to Shakespeare Company, mesne. Fly reel having primary and secondary drag means. 3,478,977, 11-18-69, Cl. 242-84.45
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Saran, Herbert; and Budnowski, Manfred, to Henkel & Cie GmbH. Process for the preparation of molded plastics based on solid triglycidyl isocyanurates. 3,459,713, 8-5-69, Cl. 260-77.5
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Sarem, Amir M., to Union Oil Company of California. Recovery of petroleum by flooding with viscous aqueous solutions of acrylic acid-acrylamide- diacetone acrylamide copolymer. 3,476,186, 11-4-69, Cl. 166-274.

Sarett, Lewis H.; and Brown, Horace D., to Merck & Co., Inc. 5-Aryl (or heteroaromatic) benzazoles. 3,471,508, 10-7-69, Cl. 260-302.

Sarett, Lewis H.; and Brown, Horace D., to Merck & Co., Inc. 5-(or 6)-Halo(or amino)benzazoles and methods for preparing same. 3,478,046, 11-11-69, Cl. 260-302.

Sarett, Lewis H.; Bry, Thomas S.; Fried, John; Oberster, Arthur E.; and Beyler, Roger E., to Merck & Co., Inc.3-Ketal, 3-enol ether and 3-pyrrolidine derivatives of 17α-ethynyl and 17α-halo ethynyl-17β-tetra- hydropyranyloxy-estra-5(10), 9(11)-dien-3-ones. 3,452,007, 6-24-69, Cl. 260-239.55

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Sarett, Lewis H.; Rooney, Clarence S.; and Peterson, Louis H., to Merck & Co., Inc. N-benzoyloxymethyl benzamides and their preparation. 3,439,019, 4-15-69, Cl. 260-472.

Sarett, Lewis H.; Strachan, Robert G.; and Hirschmann, Ralph F., to Merck & Co., Inc.Anti-inflammatory steroid 2'-acetamido-2'-deoxy- glucoside compounds. 3,427,300, 2-11-69, Cl. 260-210.

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Sargeant, Ralph G. Method of producing high density, low viscosity fruit juice concentrate. 3,428,463, 2-18-69, Cl. 99-205.

Sargeant, Ralph G., to Pet, Incorporated. Method of and apparatus for producing dry concentrates from liquid materials. 3,432,636, 3-11-69, Cl. 219-10.65

Sargeant, Ralph G. Swept surface heater. 3,474,764, 10-28-69, Cl. 122-34.

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Sargent, Albert A., to Moore Business Forms, Inc. Strip feeding and severing machines. 3,425,607, 2-4-69, Cl. 225-100.

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Sargent, Elizabeth C. Cake pan and method of baking a layer cake. 3,473,489, 10-21-69, Cl. 107-54.

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Sargent, John C.; Blome, James C.; Tims, Walter D.; and Mills, John P., to McDonnell Aircraft Corporation. Spacecraft heat shield construction and method of making same. 3,475,262, 10-28-69, Cl. 161-68.

Sargent, John R. Attachable toe guard for a shoe. 3,421,234, 1-14-69, Cl. 36-72.

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Sargent, Raymond E. Game device. 3,466,034, 9-9-69, Cl. 273-1.

Sargent, Raymond W., to Simmonds Precision Products, Inc. Fluid quantity sensor. 3,440,878, 4-29-69, Cl. 73-239.

Sargent, Raymond W., to Simmonds Precision Products Inc. Magnetic reed float switch for use within the interior of a liquid container having a removable installation feature. 3,471,665, 10-7-69, Cl. 200-84.

Sargent, Ronald J., to Thetford Engineering Corporation. Ball valve. 3,475,006, 10-28-69, Cl. 251-285.

Sargent, Thomas J., to Kamborian, Jacob S. Method of effecting a temporary securement. 3,444,573, 5-20-69, Cl. 12-142.

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Sargisson, Donald F., to General Electric Company. Helicopter engine air inlets. 3,483,676, 12-16-69, Cl. 55-306.

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Sarinelli, Samuel R. Apparatus for cosmetically treating hair. 3,452,759, 7-1-69, Cl. 132-9.

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Sarka, Albert J., to Harris-Intertype Corporation. Method and apparatus for removing waste pieces from sheet material. 3,435,737, 4-1-69, Cl. 93-36.

Sarka, Albert J., to Harris-Intertype Corporation. Cutting and scoring dies. 3,485,146, 12-23-69, Cl. 93-58.

Sarka, Albert J.; and Toth, Louis P., to Harris-Intertype Corporation. Etching apparatus. 3,455,763, 7-15-69, Cl. 156-345.

Sarka, Albert J.; and Toth, Louis P., to Harris-Intertype Corporation. Apparatus for operating on sheet material. 3,460,443, 8-12-69, Cl. 93-58.2

Sarkar, Asim Kumar, to Hickson & Welch Limited. Pyrazolyl derivatives having optical whitening properties. 3,428,630, 2-18-69, Cl. 260-240.9

Sarkar, Asim Kumar, to Hickson & Welch Limited. Triazolyl styryl optical whitening agents. 3,470,167, 9-30-69, Cl. 260-240.9

Sarkissian, Vahe B. Shoe with a hinged mechanically adjustable heel. 3,464,126, 9-2-69, Cl. 36-2.5

Sarkozy, Francis A., to Emhart Corporation. Valve lever and latch construction for glassware forming machines. 3,461,903, 8-19-69, Cl. 137-315.

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Sarno, Andrew N., to DI/AN Controls, Inc. Stacked magnetic memory system. 3,432,827, 3-11-69, Cl. 340-174.

Sarnoff, Stanley J. Burstable diaphragm seal. 3,424,155, 1-28-69, Cl. 128-218.

Sarnoff, Stanley J. Training injection device. 3,426,448, 2-11-69, Cl. 35-17.

Sarnoff, Stanley J. Uniting parts by the use of vibrational and positive material deforming forces and article made thereby. 3,436,803, 4-8-69, Cl. 29-432.2

Sarnoff, Stanley J. Syringe with single use cartridge and holder. 3,437,090, 4-8-69, Cl. 128-218.

Sarnoff, Stanley J. Cartridge assembly including ribbed hub. 3,450,135, 6-17-69, Cl. 128-221.

Sarnoff, Stanley J. Automatic infusion device. 3,451,393, 6-24-69, Cl. 128-214.

Sarnoff, Stanley J. Thermal transfer garment and thermal transfer packet therefor. 3,476,102, 11-4-69, Cl. 126-204.

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Saronni, Emiliana. Thermostatic apparatus. 3,447,748, 6-3-69, Cl. 236-59.

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Sarraf, Edward M. Spacer for basic refractory brick in metallurgical vessels. 3,448,974, 6-10-69, Cl. 266-43.

Sarraf, Edward M. Refractory block for annular linings. 3,463,865, 8-26-69, Cl. 13-35.

Sarring, Ernest J., to Crawley Machinery Co. Method and apparatus for properly positioning a book within a case. 3,451,082, 6-24-69, Cl. 11-3.

Sarrois, Jean M., to Compagnie Francaise Thomson-Houston-Hotchkiss-Brandt. Tubular mesh cathode for high-power electronic tubes. 3,449,616, 6-10-69, Cl. 313-341.

Sarsten, Jan A.; and Myers, Michael C., to Esso Research and Engineering Company. Process for vaporizing liquefied natural gas. 3,479,832, 11-25-69, Cl. 62-52.

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Schmerling, Louis, to Universal Oil Products Company. Process for the preparation of dicarboxyalkylidene compounds containing halo substituted bicycloalkene moieties and derivatives thereof. 3,445,481, 5-20-69, Cl. 260-347.3

Schmerling, Louis, to Universal Oil Products Company. Bis(polyhalocycloalkene)dicarboxylic acids and derivatives thereof. 3,445,482, 5-20-69, Cl. 260-347.8

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Schmid, Byron C. Electrostatic separation of dry materials. 3,458,041, 7-29-69, Cl. 209-12.
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Schmid, Oswald Charles. Shovel holder attachment for vehicles. 3,432,133, 3-11-69, Cl. 248-201.
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Schmidt, Karl; Hansch, Ferdinand; and Rombrecht, Hans-Malte, to Beck, Dr., & Co., GmbH. Polyester imide resins from imide group containing polyvalent carboxylic acids containing at least three carboxy groups. 3,459,829, 8-5-69, Cl. 260-850.

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Schoonover, Richard H. A., to Katrak Vehicle Company. Tandem type vehicle and steering drive and torque limit controls therefor. 3,434,739, 3-25-69, Cl. 280-492.
Schoonover, Richard H. A., to Katrak Vehicle Company. Track-laying vehicle and self-energizing track torque control therefor. 3,443,654, 5-13-69, Cl. 180-9.62
Schoonover, Richard H. A., to Katrak Vehicle Company. Self-cleaning track and drive assembly for track-laying vehicles. 3,443,844, 5-13-69, Cl. 305-13.
Schoonover, Richard H. A., to Katrak Vehicle Company. Vehicle drive system. 3,446,302, 5-27-69, Cl. 180-9.2
Schoonover, Richard H. A., to Katrak Vehicle Company. Double walking beam suspension and drive assembly for track laying vehicles. 3,447,620, 6-3-69, Cl. 180-9.52
Schoonover, Richard H. A., to Katrak Vehicle Company. Triple walking beam suspension and drive assembly for track laying vehicles. 3,447,621, 6-3-69, Cl. 180-9.52
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Schoot, Cornelis Johannes; and Ponjee, Johannes Jacobus, to North American Philips Company, Inc. Acidic tin depositing bath. 3,429,790, 2-25-69, Cl. 204-54.
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Schootstra, Rients: *See*—
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Schopfel, Franz Xaver. Device for the massage and treatment of the scalp. 3,457,913, 7-29-69, Cl. 128-64.
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Schoppe, Fritz. Burner for firing a combustion chamber. 3,485,566, 12-23-69, Cl. 431-158.
Schor, Ferdinand William, to International Telephone and Telegraph Corporation. Electrical connector filter comprising at least one electrically conductive coated dielectric disc and a ferromagnetic disc. 3,447,104, 5-27-69, Cl. 333-79.
Schor, Ferdinand William, to International Telephone and Telegraph Corporation. Removable electrical connector filter assembly. 3,462,715, 8-19-69, Cl. 333-79.
Schor, Harvey Ronald: *See*—
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Schor, Wayne E.: *See*—
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Schorum, Stanley W.; and Wolff, Jay R., to United States of America, National Aeronautics and Space Administration. High speed binary-to-decimal conversion system. 3,474,441, 10-21-69, Cl. 340-347.
Schossow, George W. Vehicle crankcase drain plug with remote operator. 3,477,459, 11-11-69, Cl. 137-351.
Schotland, Ronald S., to Mobil Oil Corporation. Polybutene-1 film and its orientation process. 3,468,862, 9-23-69, Cl. 260-93.7
Schott, Andrew F. Mathematics teaching tool. 3,455,034, 7-15-69, Cl. 35-33.
Schott, Charles M., Jr., to Gloucester Engineering Co., Inc. Web altering mechanism. 3,473,995, 10-21-69, Cl. 156-513.
Schott, Clarence C. Stack furnace with pushers for feeding scrap material. 3,472,502, 10-14-69, Cl. 266-27.
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Weissermel, Klaus; Fischer, Edgar; and Schott, Claus,3,435,006.
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Schott, Robert E., to Allis-Chalmers Manufacturing Company. Hydraulic control valve. 3,439,708, 4-22-69, Cl. 137-596.13
Schott, Robert E., to Allis-Chalmers Manufacturing Company. Differential lock. 3,446,320, 5-27-69, Cl. 192-4.
Schott, Robert E.; and Bernhoft, Gerlad W., to Allis-Chalmers Manufacturing Company. Hydraulic draft control valve. 3,439,709, 4-22-69, Cl. 137-596.13
Schott, Wayne M., to Zenith Radio Corporation. Variable-turnover-frequency bass tone control. 3,460,071, 8-5-69, Cl. 333-28.
Schott, Winfried, to U.S. Philips Corporation. Device for producing frequency intervals for tuning musical instruments. 3,472,116, 10-14-69, Cl. 84-454.
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Ruhle, Hans; Schottle, Ulrich; Thiele, Heinz; Schwahn, Josef; and Ritze, Arno,3,452,656.
Schottmiller, John C.; and Walborn, Ray C., Jr., to Xerox Corporation. Method of preparing lead oxide films. 3,468,705, 9-23-69, Cl. 117-201.
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Schou, Carl E., to Rockwell-Standard Company, mesne. Vehicle drive. 3,465,616, 9-9-69, Cl. 74-870.
Schozel, Karl, to Greutert, Werner. Storage battery. 3,462,304, 8-19-69, Cl. 136-6.
Schpak, Fred; Breger, Joseph L.; and Warner, Robert H., to Mueller Welt Contact Lenses, Inc. Method of machining non-rigid contact lenses. 3,423,886, 1-28-69, Cl. 51-281.
Schrader, Charles D.; and Schrader, Max A., Sr. Secondary ignition wire end assembly. 3,431,534, 3-4-69, Cl. 339-26.
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Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Asymmetrical para-nitrophenyl phosphates. 3,444,274, 5-13-69, Cl. 260-954.
Schrader, Gerhard; Behrenz, Wolfgang; and Hammann, Ingeborg, to Farbenfabriken Bayer Aktiengesellschaft. O,O-Dialkyl-O-(dithiocarbonato)ethyl- phosphoric acid esters. 3,470,229, 9-30-69, Cl. 260-455.
Schrader, Gerhard; Eue, Ludwig; and Hack, Helmuth, to Farbenfabriken Bayer Aktiengesellschaft. O-Methyl-N-isopropylamido-O-(2-nitrophenyl)- thionophosphoric acid ester. 3,472,920, 10-14-69, Cl. 260-954.
Schrader, Gerhard; and Scheinpflug, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Thiol- and dithiol-phosphoric acid esters. 3,457,332, 7-22-69, Cl. 260-935.
Schrader, Gerhard: *See*—
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Schrader, Gert, to Teves, Alfred, G.m.b.H. Piston-cylinder assembly with dustcap. 3,478,650, 11-18-69, Cl. 92-168.
Schrader, James H., to United States of America, National Aeronautics and Space Administration. Cooperative doppler radar system. 3,447,154, 5-27-69, Cl. 343-6.5

Schrader, Malcolm E.; and Lerner, Irving, to United States of America, Navy. Organophosphorus coupling agents for epoxy to glass laminates. 3,420,726, 1-7-69, Cl. 156-314.
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Schrader, Richard; Grunwoldt, Wilfried; Hennek, Hubert; Kneschke, Gotz; and Reinhardt, Helmut, to VEB Magnesit-Werke Aken. Process for making synthetic sintered magnesia. 3,464,790, 9-2-69, Cl. 23-201.
Schrage, Albert; and Schoenberg, Jules E., to Rexall Drug and Chemical Company. Highly fluorinated hydrocarbons used as diluents in the polymerization of ethylenically unsaturated monomers. 3,470,143, 9-30-69, Cl. 260-82.5
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Schrager, Jerome Stanley: *See—*
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Schramm, Charles H.; and Schmidle, Claude J., to Baker, J. T., Chemical Company. Urethanohalohydrins. 3,454,622, 7-8-69, Cl. 260-471.
Schramm, Charles H.; and Schmidle, Claude J., to Baker, J. T., Chemical Company. Certain epoxy-containing 2-oxazolidinones. 3,458,527, 7-29-69, Cl. 260-307.
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Schreckenberg, Karl E.; and Jessen, Jens, to Fuchs Electrical Industries (Proprietary) Limited. Relay having a permanent magnetic shunt circuit. 3,475,708, 10-28-69, Cl. 335-229.
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Schrecongost, Ray B., to Hammond Corporation. Electrical musical instrument keying system. 3,435,123, 3-25-69, Cl. 84-1.26
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Schreiber, Henry; Goerz, David J., Jr.; Hankin, Jerome W.; and Stephansen, Erik W., to Bechtel International Corporation, mesne. Air suspension system in microwave drying. 3,449,836, 6-17-69, Cl. 34-1.
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Serniuk, Melius. Speed control apparatus. 3,447,400, 6-3-69, Cl. 74-782.
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Setzer, Herbert J.; and Whiting, Richard W., to United Aircraft Corporation. Sulfur removal from hydrocarbons. 3,485,746, 12-23-69, Cl. 208-244.
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Seulen, Gerhard; Geisel, Herbert; and Stangl, Ernst, to AEG-Elotherm G.m.b.H. Cross field inductor for heating electrically conducting workpieces. 3,446,930, 5-27-69, Cl. 219-10.69
Seulen, Gerhard; and Reinke, Friedhelm, to AEG-Elotherm G.m.b.H. Inductor arrangement for surface hardening flanged shafts. 3,472,990, 10-14-69, Cl. 219-10.79
Seulen, Gerhard; and Reinke, Friedhelm, to AEG-Elotherm G.m.b.H. Inductor for surface-hardening rotating shafts. 3,472,991, 10-14-69, Cl. 219-10.79
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Sewell, Robert A., to Keystone Consolidated Industries, Inc. Combination shackle lock. 3,472,049, 10-14-69, Cl. 70-21.
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Sewell, Wesley C., to Honeywell, Inc. Constant current differential amplifier with current sensing and feedback networks. 3,422,366, 1-14-69, Cl. 330-30.
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Sexton, Joseph P., Jr., to United States Sugar Corporation. Sugarcane harvesting apparatus. 3,456,429, 7-22-69, Cl. 56-16.
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Seybold, Frederick W. One-half revolution indexing mechanism. 3,482,473, 12-9-69, Cl. 74-822.
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Silva, Edmund J., to Reliance Electric and Engineering Company, The. Dynamoelectric machine stator yoke with keyed salient poles. 3,445,702, 5-20-69, Cl. 310-191.
Silva, John R.; and Turtle, Quentin C., to General Signal Corporation. Negative feedback circuit employing combination amplifier and lead-lag compensation network. 3,465,276, 9-2-69, Cl. 328-142.
Silva, Joseph W., to Olin Mathieson Chemical Corporation. Frangible target and method of manufacture. 3,469,411, 9-30-69, Cl. 62-66.
Silva, Joseph W.; and Staba, Edward A., to Olin Mathieson Chemical Corporation. Caseless smokeless powder pellet and method of preparing same. 3,463,086, 8-26-69, Cl. 102-38.
Silva, Joseph. Air deflector for supersonic aircraft. 3,425,650, 2-4-69, Cl. 244-130.
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Silva, William C.: *See—*
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Silvain, Andre Henri, to Pilot Research Corporation. Form-fitting seamless garment and method. 3,479,844, 11-25-69, Cl. 66-176.
Silvander, Ake. Apparatus for producing articles from a plastic or fluid substance. 3,439,604, 4-22-69, Cl. 99-431.
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Silver, Bernard; and Bolta, Christian C., to Susquehanna Corporation, The. Launcher using a vaporing liquid as a projectile propelling means. 3,430,619, 3-4-69, Cl. 124-11.
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Silver, Harold F.; and Price, Frank B., to American Factors Associates, Limited. Press for separating liquids from solids. 3,431,839, 3-11-69, Cl. 100-158.
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Silver, Howard Bernard; and Thompson, Raymond, to United States Borax & Chemical Corporation. Organometallic derivatives of arsenic and antimony. 3,422,125, 1-14-69, Cl. 260-414.
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Silver, Joseph R., to Ingelstroem-Oberlin, Inc., mesne. Soil-conditioning apparatus and method. 3,485,480, 12-23-69, Cl. 259-9.
Silver, Jules. Combination plastic mold, suppository package, dispenser and method for providing and using the same. 3,424,158, 1-28-69, Cl. 128-260.

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Silver, Robert S.: *See—*
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Silver, Sandra B. Paint easel, tray and liner therefor. 3,467,259, 9-16-69, Cl. 211-74.
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Silverman, Alvin J.; and Diamond, Albert, to Vernitron Corporation. Electromagnetic rotary indicating device. 3,470,509, 9-30-69, Cl. 335-229.
Silverman, Alvin J.; and Diamond, Albert, to Vernitron Corporation. Electro-mechanical read-out device. 3,479,626, 11-18-69, Cl. 335-266.
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Silverman, Bernard A.; Thompson, Brian J.; and Parrent, George B., Jr., to United States of America, Air Force. Particle size and distribution analysis using spatial filtering techniques. 3,451,755, 6-24-69, Cl. 356-102.
Silverman, Bernard P.; and Currie, Harold B., to RCA Corporation. Character reader. 3,465,288, 9-2-69, Cl. 340-146.3
Silverman, Bernard, to Monsanto Company. Polyamide molding composition. 3,475,365, 10-28-69, Cl. 260-32.6
Silverman, Daniel. Method and apparatus for driving and lining an underground conduit. 3,422,631, 1-21-69, Cl. 61-72.1
Silverman, Daniel. Random access magnetic tape memory system. 3,423,743, 1-21-69, Cl. 340-174.1
Silverman, Daniel, to Pan American Petroleum Corporation. Cross-correlator. 3,432,648, 3-11-69, Cl. 235-181.
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Silverman, Daniel, to Pan American Petroleum Corporation. Elastic-wave holography. 3,450,225, 6-17-69, Cl. 181-0.5
Silverman, Daniel, to Pan American Petroleum Corporation. Nuclear fracturing and heating in water flooding. 3,451,478, 6-24-69, Cl. 166-272.
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Silverman, Daniel, to Pan American Petroleum Corporation. Seismic surveying using truncated monofrequency wave trains. 3,474,404, 10-21-69, Cl. 340-15.5
Silverman, Daniel, to Pan American Petroleum Corporation. Optical display system using controlled deflections of a collimated beam of radiant energy. 3,474,459, 10-21-69, Cl. 346-108.
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Silverman, Daniel, to Pan American Petroleum Corporation. Horizontal drilling of well bores from tunnels. 3,486,571, 12-30-69, Cl. 175-5.
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Silverman, Elliott; and Cohen, Morton. Orthodontic appliance. 3,464,112, 9-2-69, Cl. 32-14.
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Simkins, Quinton W., to International Business Machines Corporation. Magnetic film storage systems providing cancellation of spurious noise signals. 3,435,429, 3-25-69, Cl. 340-174.
Simkins, Quinton W.; and Vogl, Norbert G., Jr., to International Business Machines Corporation. Storage sensing system for a magnetic matrix employing two storage elements per bit. 3,471,839, 10-7-69, Cl. 340-174.
Simko, Aladar O., to Ford Motor Company. Integrated fuel injection and ignition distributor assembly. 3,446,198, 5-27-69, Cl. 123-140.
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Simmler, Walter, to Farbenfabriken Bayer Aktiengesellschaft. 2-Sila-1,4-dioxan compounds and production. 3,475,478, 10-28-69, Cl. 260-448.8
Simmler, Walter; and Niederprum, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of organosiloxanes. 3,481,962, 12-2-69, Cl. 260-448.2
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Simmler, Walter; Niederprum, Hans; and Sattlegger, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of hydroxymethylsiloxanes. 3,442,925, 5-6-69, Cl. 260-448.2
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Simmons, Arthur W.; and Washbourn, Jack, to Westinghouse Brake and Signal Company, Limited. Automatic release valves. 3,447,563, 6-3-69, Cl. 137-495.
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Simmons, Harold C.; and Lapera, Dominic J., to Parker-Hannifin Corporation. Nozzle and manifold assembly. 3,472,025, 10-14-69, Cl. 60-39.74
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Simmons, Harold T.; and Pervorse, Richard E., to Mallory, P. R., & Co., Inc. Shaft locking device. 3,476,892, 11-4-69, Cl. 200-38.
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Simmons, Patrick M. L., 1/2 to Hanscom, Genevieve I., and 1/2 to Hanscom, Genevieve I., and Duggan, Lois J., as trustees of the estate of Magnuson, Roy M. Reflectance colorimeter with hybrid type stabilized amplifier. 3,437,819, 4-8-69, Cl. 250-214.
Simmons, Patrick M. L., 1/2 to Hanscom, Genevieve I., and 1/2 to Magnuson, Robert, and Duggan, Lois J., as trustees of the estate of Magnuson, Roy M. Apparatus for sorting products. 3,455,444, 7-15-69, Cl. 209-82.
Simmons, Patrick M. L., 1/2 to Hanscom, Genevieve I., and 1/2 to Magnuson, Robert, and Duggan, Lois J., trustees of the estate of Magnuson, Roy M. Pit detector circuit. 3,467,254, 9-16-69, Cl. 209-111.6
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Simon, Frank. Adjustable garment hangers. 3,471,069, 10-7-69, Cl. 223-91.
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Smart Jay A., to Won-Door Corporation, The. Air release construction for folding door. 3,447,584, 6-3-69, Cl. 160-84.
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Smith, William Novis, Jr., to Foote Mineral Company. Method of making T-butyllithium. 3,420,903, 1-7-69, Cl. 260-665.
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Smitzer, Louis A.; Tyler, Len A.; Hines, Walter; and Bixby, William E., to Bell & Howell Company. Continuous rotary electrostatographic apparatus. 3,442,585, 5-6-69, Cl. 355-3.
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Smolen, Sam Robert, to Marotta Valve Corporation. Valve seats for high pressure valves. 3,456,915, 7-22-69, Cl. 251-282.
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Snow, Barton H., to General Electric Company. Sequettial tester for interpin impedances including resistor-diode combination standards. 3,458,806, 7-29-69, Cl. 324-73.
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Snow, Richard R., to Libbey-Owens-Ford Company. Sulfur trioxide glass surface treatment process. 3,473,908, 10-21-69, Cl. 65-99.
Snow, Richard W.; and Wilt, Chester C., to Eastman Kodak Company. Electrolytic process and apparatus for recovering metals. 3,477,926, 11-11-69, Cl. 204-109.
Snow, Roland B., to United States Steel Corporation. Oxidation resistant sulphur bearing steel containing chromium and aluminum. 3,484,236, 12-16-69, Cl. 75-124.
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Snowdon, Arthur E., to Superior Electric Company, The. Electric stepping motor with a pair of rotor cages and stators. 3,466,476, 9-9-69, Cl. 310-49.
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Snyder, Carl R.; and Binelli, Walter D., to Philco-Ford Corporation. Cryogenically cooled electro-optical apparatus. 3,445,786, 5-20-69, Cl. 331-94.5
Snyder, Clifford H., Jr., to SRM Company. Threaded fluid coupling. 3,446,245, 5-27-69, Cl. 137-614.03
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Snyder, George H. Transmission construction. 3,451,285, 6-24-69, Cl. 74-364.
Snyder, Glenn M., to Landis Tool Company. Control means for magnetic face plates. 3,432,972, 3-18-69, Cl. 51-103.
Snyder, Glenn M., to Landis Tool Company. Precision production grinder. 3,447,270, 6-3-69, Cl. 51-165.
Snyder, H. Kent, Jr., to Chicago Display Company. Pole sign. 3,479,760, 11-25-69, Cl. 40-145.
Snyder, Harold I. Packaging machine. 3,461,645, 8-19-69, Cl. 53-112.
Snyder, Harry R., Jr., to Norwich Pharmacal Company, The. 1-(5-Nitrofurfurylideneamino)-3-nitroso-2- imidazolidinone. 3,485,830, 12-23-69, Cl. 260-240.
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Snyder, Joe W. Bed wetting alarm and trainer. 3,441,019, 4-29-69, Cl. 128-138.
Snyder, John C., to Hercules Incorporated. Preparation of metal hydrides. 3,485,585, 12-23-69, Cl. 23-204.
Snyder, John D., to Du Pont de Nemours, E. I., and Company. Process for forming a polyethylene/polypropylene laminate. 3,481,804, 12-2-69, Cl. 156-82.
Snyder, John G., to Susquehanna Corporation, The. Munition dispenser. 3,481,246, 12-2-69, Cl. 89-1.5
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Snyder, Richard L., to United States of America, Atomic Energy Commission. Mechanically settable magnetic register. 3,447,144, 5-27-69, Cl. 340-174.1
Snyder, Richard L. Oriented magnetic memory cores. 3,465,306, 9-2-69, Cl. 340-174.
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Snyder, Travis C. Vapor compression distillation of chemically treated degassed saline water. 3,461,041, 8-12-69, Cl. 203-7.
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Spangler, Carl D., Jr.; and Price, Walter J., to Nofsinger, C. W., Company, The. Moving bed adsorption apparatus. 3,442,066, 5-6-69, Cl. 55-390.
Spangler, Charles W., to General Electric Company. Speed control of moving paper responsive to transmittance of paper. 3,450,888, 6-17-69, Cl. 250-219.
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Spar, Donald; and Spar, Robert B., to B & M Automotive, Inc. Drive for the oil pump of an automatic transmission coupled to an engine by a friction clutch. 3,455,422, 7-15-69, Cl. 192-105.
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Sparks, Allen K.; and Dombro, Robert A., to Universal Oil Products Company. 3,6-Dihydroxy-1,2,3,6-tetrahydrophthalic acid, anhydride, derivatives and polymers thereof. 3,426,044, 2-4-69, Cl. 260-346.3
Sparks, Allen K.; and Dombro, Robert A., to Universal Oil Products Company. Substituted 3,6-dihydroxy-4-cyclohexenecarboxylic acids. 3,480,668, 11-25-69, Cl. 260-514.
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Sparks, David W.; and Tessier, Jack H., to United States of America, Atomic Energy Commission. Stability improvement for nuclear reactor automatic control system. 3,483,081, 12-9-69, Cl. 176-20.
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Staar, Theophiel Clement Jozef Lodewijk, to Staar, S.A. Tape cartridge positioning and driving apparatus. 3,429,519, 2-25-69, Cl. 242-55.13
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Staats, James E., to General Electric Company. Crossed-discharge device and coupler therefor and microwave circuits incorporating the same. 3,456,151, 7-15-69, Cl. 315-39.51
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Staats, James E., to General Electric Company. Crossed-field discharge device and microwave circuits incorporating the same. 3,458,755, 7-29-69, Cl. 315-39.51
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Stiepel, Erhard Edwin, to Maremont Corporation. Spindle clutch and brake mechanism. 3,420,343, 1-7-69, Cl. 192-18.

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Stier, Henry W., to Carmet Company. Reversible throw-away cutting inserts. 3,466,720, 9-16-69, Cl. 29-95.

Stier, Henry W., to Carmet Company. Tool holder. 3,466,955, 9-16-69, Cl. 82-36.

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Stiles, Arthur G. Automatic air flow control device for duct systems. 3,424,195, 1-28-69, Cl. 137-504.

Stiles, Grayson G. Blowgun fuse adapter. 3,464,048, 8-26-69, Cl. 337-242.

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Stiles, John C., to Singer-General Precision, Inc. Bi-fluid hydrodynmic bearing. 3,439,961, 4-22-69, Cl. 308-9.

Stiles, John C., to General Precision Systems Inc. Tubular hinge suspension for gyro rotor. 3,452,608, 7-1-69, Cl. 74-5.

Stiles, John C.; and Emerson, John F., to Singer-General Precision, Inc. Bimetal heater for a gyroscope. 3,453,894, 7-8-69, Cl. 74-5.

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Stiles, Walter R., to Skuttle Manufacturing Company. Humidifier and system. 3,480,209, 11-25-69, Cl. 237-1.

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Stillo, Horatio Serafino, to Minnesota Mining and Manufacturing Company. Electron beam recording medium with acid sensitive indicator and halogenated polymer coating. 3,425,867, 2-4-69, Cl. 117-230.

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Stillwagon, George B., Jr., 1/2 to Fraser, Kenneth G. Universal joint pinning construction. 3,447,232, 6-3-69, Cl. 29-434.

Stillwaugh, Eleanor M. Collapsible playpen. 3,430,273, 3-4-69, Cl. 5-98.

Stillwell, Peter F.T.C., to Xerox Corporation. Embattled scanning of documents. 3,472,959, 10-14-69, Cl. 178-7.7

Stillwell, Peter Frederic Thomas Cryer; Montgomery, Peter Murdo; and Hogg, Richard William, to Electric & Musical Industries Limited. Radar apparatus. 3,432,854, 3-11-69, Cl. 343-7.4

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Stimson, Allen G.; and Eagle, John H., to Eastman Kodak Company. Automatic exposure control for photoflash. 3,440,938, 4-29-69, Cl. 95-10.
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Stine, Laurence O.; Lengemann, Robert A.; and Vesely, Kenneth D., to Universal Oil Products Company. Hydrogenation process. 3,461,061, 8-12-69, Cl. 208-57.
Stine, Laurence O.; Lengemann, Robert A.; and Vesely, Kenneth Donald, to Universal Oil Products Company. Hydrogenation process. 3,461,063, 8-12-69, Cl. 208-143.
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Stingl, Alfred LeRoy, to Trans-Meridian International, Inc. VTOL aircraft flight system. 3,473,232, 10-21-69, Cl. 33-204.
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Stockdale, George F., to RCA Corporation. Glass seal manufacture. 3,472,640, 10-14-69, Cl. 65-43.
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Stocker, Emil, to Geigy, J. R., AG. Yellow monoazo pigments having a greenish tint. 3,445,453, 5-20-69, Cl. 260-193.
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Stocklocker, Heinrich, to Schiff & Stern Gesellschaft m.b.H. Apparatus for moistening tobacco bales. 3,437,094, 4-8-69, Cl. 131-136.
Stockmann, Hans H.; and Fertig, Joseph, to National Starch and Chemical Corporation. Sulfur-containing polyamines. 3,464,969, 9-2-69, Cl. 260-79.
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Stocks, Harry Ronald; and Gladstone, Dennis John, to General Motors Corporation. Drive axle suspension system for resiliently resisting acceleration wind-up. 3,444,947, 5-20-69, Cl. 180-71.

Stockton, Raymond F. Terrestrial magnetism responsive device including fluid supported indicating means for investigating subsurface characteristics of the earth. 3,423,672, 1-21-69, Cl. 324-8.
Stockton, Thomas R., to Ford Motor Company. Multiple speed ratio power transmission mechanism with a minimum deflection chain drive. 3,424,031, 1-28-69, Cl. 74-695.
Stockton, Thomas R., to Ford Motor Company. Manually operable transmission coil spring clutch. 3,439,560, 4-22-69, Cl. 74-732.
Stockton, Thomas R., to Ford Motor Company. Composite ring gear driving member. 3,446,089, 5-27-69, Cl. 74-448.
Stockton, Thomas R., to Ford Motor Company. Engine and transmission assembly. 3,473,413, 10-21-69, Cl. 74-695.
Stockwell, Bernard R.; and Van Steenhoven, Frank, to Holophane Company, Inc. Post top-mounted luminaire. 3,463,917, 8-26-69, Cl. 240-3.
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Stoeng, Gunnar, to Beloit Corporation. Arrangement for a baling press. 3,430,556, 3-4-69, Cl. 100-215.
Stoertz, Robert W., to Westvaco Corporation. Method of uniformly discharging high consistency pulp from a flow chamber containing a constricted opening. 3,486,516, 12-30-69, Cl. 137-8.
Stoessl, Albert, to Canadian Patents and Development Limited. Hordatine compounds and synthesis. 3,475,459, 10-28-69, Cl. 260-346.2
Stoever, Hans O., to Eastman Kodak Company. Artificial kidney system provided with automatic coupling means. 3,482,573, 12-9-69, Cl. 128-214.
Stoever, Hans O.; and Leinbach, Richard K., to Eastman Kodak Company. Artificial kidney system provided with a lever actuated shunt coupling mechanism. 3,482,574, 12-9-69, Cl. 128-214.
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Stott, Albert M., to United States of America, Army. Launching apparatus. 3,457,826, 7-29-69, Cl. 89-1.
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Szczepanek, Alfred; and Szczepanek, Margarete,3,459,776.

Szczepanski, Harry. Indexing vertical rotary mask-washing machine. 3,448,744, 6-10-69, Cl. 134-79.

Szczerba, Roman: *See—*
Ryczek, Michal; Wesolowski, Kornel; Halota, Franciszek; Bartoszek, Boleslaw; Marcinow, Tadeusz; Niemiec, Jan; Tyszkowski, Zygmunt; Szczerba, Roman; Kossowski, Eugeniusz; Cholewa, Mieczyslaw; and Nowak, Ryszard,3,468,773.

Szczodry, Aleksander. Process for the preparation of ammonium bromide. 3,471,251, 10-7-69, Cl. 23-100.

Szczur, Albert: *See—*
Wilde, Leon G.; Szczur, Albert; and Stephens, William J.,3,451,438.

Sze, Morgan C.; and Bauer, William V. Two-stage hydrotreating of dripolene. 3,429,804, 2-25-69, Cl. 208-144.

Sze, Morgan C.; and Stewart, Donald B., to Lummus Company, The. Production of hydrogen. 3,479,298, 11-18-69, Cl. 252-373.

Sze, Morgan C.: *See—*
Mekler, Valentine; Sze, Morgan C.; Bloomer, Ward J.; and Bauer, William V.,3,420,656.
Reilly, James W.; and Sze, Morgan C.,3,450,784.
Thornton, James F.; and Sze, Morgan C.,3,456,622.

Szegvari, Andrew. Agitator. 3,450,356, 6-17-69, Cl. 241-172.

Szegvari, Andrew. Dispersing apparatus. 3,486,705, 12-30-69, Cl. 241-172.

Szekely, Edmond Bordeaux. Bathing vessel, liquid agitated by multiple jets of air. 3,467,969, 9-23-69, Cl. 4-180.

Szekely, Steven M.: *See—*
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Szentaszloi, Alexander; and Weiss, Melvin I., to Bliss, E. W., Company. Lowering trough assembly for use with a continuous casting machine. 3,461,951, 8-19-69, Cl. 164-282.

Szentkuti, Charles, to Ivanhoe Research Corporation, mesne. Automatic apparatus for separating the top workpiece from a stack of fabric workpieces and for delivering the separated workpieces. 3,442,505, 5-6-69, Cl. 271-1.

Szeremany, Julius, to Daniels Plating Barrel & Supply Company. Barrel plating machine. 3,434,954, 3-25-69, Cl. 204-214.

Szeremy, Norman, to General Electric Company. Contrast control circuit for television receiver. 3,435,139, 3-25-69, Cl. 178-7.3

Szeremy, Norman, to General Electric Company. Pulse circuit for horizontal output circuit in television receiver. 3,452,153, 6-24-69, Cl. 178-7.3

Szeremy, Norman, to General Electric Company. Combined keyed AGC and sync separator circuit. 3,482,041, 12-2-69, Cl. 178-7.3

Szeremy, Norman; Highland, Andrew, Jr.; and Elwell, Charles E., deceased0 (by Elwell, Betty D.; administratrix), to General Electric Company. Combined cord connector and strain relief with receptacle. 3,448,429, 6-3-69, Cl. 339-61.

Szerenyl, Andrew; and Liebscher, Anton, to Ro-Search, Incorporated. Method of manufacture of footwear having anti- skid soles. 3,426,120, 2-4-69, Cl. 264-244.

Szereszewski, Pinchas Paul; and Guy, Jean-Baptiste, to Societe Industrielle Generale de Mecanique Appliquee S.I.G.M.A. Apparatus for regulating free piston gas generators. 3,442,259, 5-6-69, Cl. 123-46.

Szeverenyi, Nikolaus A.: *See—*
Jenkins, Carlton Gene; Stoldt, Clayton Lewis; and Szeverenyi, Nikolaus A.,3,481,607.

Sziksay, Anton, to Comitetul de Stat Pentru Cultura Si Arta. Viewfinder for cameras with optical pickup from film surface. 3,473,457, 10-21-69, Cl. 95-42.

Szilagyi, Bela: *See—*
Price, Howard; Szilagyi, Bela; and Quinto, Mario,3,481,268.

Szilagyi, Dezso: *See—*
Cary, Francis H.; Miner, Irving O.; and Szilagyi, Dezso,3,442,489.

Szilagyi, Gabor J., to Celanese Corporation. Printing of polyethylene terephthalate fabrics. 3,440,001, 4-22-69, Cl. 8-62.

Szilagyi, Geza: *See—*
Kasztreiner, Endre; Borsi, Jozsef; Vargha, Laszlo; Boris, Meszaros, Erika; and Szilagyi, Geza,3,432,549.

Szilard, Julius A.: *See—*
Eager, George S., Jr.; and Szilard, Julius A.,3,459,871.

Szita, Jeno: *See—*
Bahr, Ulrich; Suling, Carlhans; Nischk, Gunther; and Szita, Jeno,3,483,208.

Szita, Jeno; Bahr, Ulrich; Wieden, Horst; Marzolph, Herbert; and Nischk, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Acrylonitrile copolymers with unsaturated sulfobetaines and process for preparing same. 3,478,001, 11-11-69, Cl. 260-79.3

Szita, Jeno; Marzolph, Herbert; and Unger, Otto, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of acrylonitrile polymers. 3,449,286, 6-10-69, Cl. 260-30.4

Szita, Jeno; Marzolph, Herbert; and Unger, Otto, to Farbenfabriken Bayer Aktiengesellschaft. Production of acrylonitrile polymers. 3,453,249, 7-1-69, Cl. 260-85.5

Szita, Jeno; Rinkler, Heinrich; Marzolph, Herbert; and Nischk, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Acrylonitrile copolymers. 3,470,141, 9-30-69, Cl. 260-78.5

Szitar, John E., Jr., to Teledyne, Inc. Tube flaring machine. 3,477,265, 11-11-69, Cl. 72-117.

Szitz, Jeno; Nogaj, Alfred; and Marzolph, Herbert, to Farbenfabriken Bayer Aktiengesellschaft. Bi-component acrylonitrile filaments and process for producing the same. 3,470,060, 9-30-69, Cl. 161-175.

Szklarski,Ludger Miroslaw: *See—*
Jezewski, Mieczyslaw Stanislaw; Kawecki, Zygmunt Tadeusz; Szklarski,Ludger Miroslaw; Krawczyk, Eugeniusz Marian; and Ogorzalek, Jerzy Marian,3,424,976.

Szklarz, Eugene G.: *See—*
Krupka, Milton C.; Giorgi, Angelo L.; Krikorian, Nerses H.; and Szklarz, Eugene G.,3,482,940.

Szmuszkovicz, Jacob: *See—*
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Anthony, William C.; and Szmuszkovicz, Jacob,3,470,205.

Szmuszkovicz, Jacob, to Upjohn Company, The. 2,3-Bis[P-(W-aminoalkoxy, phenyl]-indoles. 3,420,838, 1-7-69, Cl. 260-294.7

Szmuszkovicz, Jacob, to Upjohn Company, The. 2-(2-Furoyl)cycloalkanones, 2-furyl-2-(hetero- cyclicamino) cycloalkyl ketones, and d-(2-furyl)-2- heterocyclicamino-cyclohexanemethanols. 3,458,523, 7-29-69, Cl. 260-294.7

Szmuszkovicz, Jacob, to Upjohn Company, The. 2,3-Bis(alkoxy phenyl)pyrroles. 3,462,451, 8-19-69, Cl. 260-326.5

Szmuszkovicz, Jacob, to Upjohn Company, The. Allylic amines. 3,468,881, 9-23-69, Cl. 260-240.

Szmuszkovicz, Jacob, to Upjohn Company, The. 2,3 Bis(alkoxyphenyl)-1-pyrroline. 3,478,053, 11-11-69, Cl. 260-326.5

Szobel, Laszlo; Troussier, Maurice; and Vuillemenot, Jacques, to Ugine Kuhlmann. Novel acids and esters derived from halogenated phenols. 3,446,838, 5-27-69, Cl. 260-473.

Szodfridt, Imre, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Hydrodynamic torque converter, especially for transmissions of motor vehicles. 3,473,327, 10-21-69, Cl. 60-54.

Szohatzky, Zoltan: *See—*
Lennon, Fred A.; Zahuranec, Emery J.; Dodge, Harry G.; and Szohatzky, Zoltan,3,475,948.
Lennon, Fred A.; Zahuranec, Emery J.; Szohatzky, Zoltan; and Beck, Edward,3,447,405.

Szonn, Reinhold: *See—*
Bechtloff, Gert; and Szonn, Reinhold,3,429,420.

Szopo, Alexander. Swivelling shoe brush combination. 3,451,092, 6-24-69, Cl. 15-106.

Szostak, Jerzy Przemyslaw: *See—*
Bonikowski, Zbigniew; and Szostak, Jerzy Przemyslaw,3,461,369.

Szostek, Joseph John. Reusable package. 3,463,309, 8-26-69, Cl. 206-78.

Szosteki, Walter J.: *See—*
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Szpilfogel, Stefan Antoni: *See—*
Van Dorp, David Adriaan; and Szpilfogel, Stefan Antoni,3,423,434.

Szpur, Roman. Magnetic mixing and stirring device. 3,433,465, 3-18-69, Cl. 259-111.

Szpur, Roman. Coherent radiation device irradiated by means of radar waves. 3,453,556, 7-1-69, Cl. 331-94.5

Szuba, Walter D.; and Hannen, James H., Jr., to Singer Company, The. Needle jogging mechanisms. 3,476,066, 11-4-69, Cl. 112-158.

Szubin, Edward D., to Ironees Company, The. Composition for conferring wrinkle resistant properties to fabric and method for preparing the same. 3,440,198, 4-22-69, Cl. 260-29.4

Szucs, Laszlo; Tarnadi, Csaba; and Kornyey, Tamas, to Chemokomplex Gep es Berendezes Export-Import Vallalat. Apparatus for flash-evaporating liquids. 3,446,189, 5-27-69, Cl. 122-40.
Szumilas, Raymond S.: *See—*
Keene, Robert J.; and Szumilas, Raymond S.,3,448,788.
Szumski, Stephen Aloysius; and Uhl, Herbert Bennett, to American Cyanamid Company. Process for applying liquid biologicals to applicators for intracutaneous injection. 3,470,011, 9-30-69, Cl. 117-47.
Szupillo, Raymond E., to Corning Glass Works. Discontinuous thin film multi-stable state resistors. 3,474,305, 10-21-69, Cl. 317-234.
Szur, Alex J.: *See—*
Croix, Louise S.; and Szur, Alex J.,3,476,860.
Szwarcman, Mieczyslaw. Method for machining a gas permeable material. 3,465,481, 9-9-69, Cl. 51-324.
Szwargulski, Alex N.: *See—*
Carlson, Harold A.; and Szwargulski, Alex N.,3,471,123.
Szwargulski, Jesse L., to ACF Industries, Incorporated. Automatic choke for a carburetor. 3,486,742, 12-30-69, Cl. 261-39.
Szymanski, Chester D.: *See—*
Evans, Raymond B.; Kruger, Leo H.; and Szymanski, Chester D.,3,463,668.
Marotta, Nicholas G.; Boettger, Richard M.; Nappen, Bernard H.; and Szymanski, Chester D.,3,455,838.
Szymanski, Leonard W., to Borg-Warner Corporation. Unthrottled engine combustion system. 3,452,726, 7-1-69, Cl. 123-32.
Szymanski, Richard, to Brunswick Corporation. Convertible bowling lane. 3,477,719, 11-11-69, Cl. 273-37.
Szymber, Oleg, to GAF Corporation. Slide projector-viewer and slide changing device therefor. 3,447,869, 6-3-69, Cl. 353-71.
Szymski, Eugene J., to General American Transportation Corporation. Hydraulic cylinder with automatic adjustment of retraction of its piston. 3,458,017, 7-29-69, Cl. 188-196.
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T & P Mechanical Co., Inc.: *See—*
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T & S Equipment Co.: *See—*
Leclear, Robert L., 3,444,574.
T & T Technology, Inc.: *See—*
Tong, Peter P.; and Thomas, Richard H., 3,461,724.
T-Scan Limited: *See—*
Richardson, Lyman Elmer, 3,484,587.
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Sieders, Rene; and Taal, Leo,3,484,277.
Tab Products Co.: *See—*
Biegel, Donald R.; and Willis, John W., 3,436,526.
McCune, Thomas W.; and Foote, Francis S., Jr., 3,442,394.
Tabachnick, Irving I. A.: *See—*
Reimann, Hans; and Tabachnick, Irving I. A.,3,463,852.
Tabata, Kazutaka, to Kabushiki Kaisha Banbi. Watch band. 3,469,749, 9-30-69, Cl. 224-4.
Tabeling, Raymond W.: *See—*
Levy, Paul F.; and Tabeling, Raymond W.,3,474,658.
Tabeling, Raymond W., to Du Pont de Nemours, E. I., and Company. Base line slope compensating circuit. 3,473,382, 10-21-69, Cl. 73-341.
Taber, Allen M.: *See—*
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Taber, David: *See—*
Jungermann, Erick; and Taber, David,3,445,398.
Taber, James A. Mobile wax applicator. 3,457,015, 7-22-69, Cl. 401-48.
Taber, Robert C.; and Brooks, Dugald A., to Eastman Kodak Company. Mordants for bleachable filter layers. 3,425,833, 2-4-69, Cl. 96-84.
Taber, Russell E., to Mead Corporation, The. Method of making a self-coiling sheet. 3,426,115, 2-4-69, Cl. 264-160.
Tabikh, Ali A., to California Portland Cement Company. Apparatus and method for monitoring surface area of flowing comminuted material. 3,482,452, 12-9-69, Cl. 73-432.
Tabisz, Sylvester C., to United States of America, Army, mesne. Parallel gray to binary converter with ambiguity check between two encoders. 3,426,347, 2-4-69, Cl. 340-347.
Tabler, Donald C., to Phillips Petroleum Company. Production of dense soda ash. 3,486,844, 12-30-69, Cl. 23-63.
Tabor, John R. Tunnel liner and method of making same. 3,449,916, 6-17-69, Cl. 61-45.
Tabor, John R. Tunnel liner and method of making same. 3,483,704, 12-16-69, Cl. 61-45.
Tabor, John R. Tunneling machine with inclined cutting wheel. 3,486,794, 12-30-69, Cl. 299-33.
Tabor, Joseph A., to Burdsall Russell & Ward Bolt and Nut Company. Prevailing-torque lockscrews. 3,459,250, 8-5-69, Cl. 151-22.
Tabor, Paul C., to Meteor Research Limited. Seat back adjuster link. 3,424,492, 1-28-69, Cl. 297-361.
Tabor, Paul C., to Meteor Research Limited, (as nominee of Mercury Metalcraft Company). Closure latch. 3,441,303, 4-29-69, Cl. 292-306.
Tabor, Paul C., to Meteor Research Limited. Tilt plate latch release. 3,468,579, 9-23-69, Cl. 292-306.
Tabor, Paul C., to Budd Company, The, mesne. Tilting seat back adjuster and latching means. 3,481,646, 12-2-69, Cl. 297-355.
Tabor, Robert W.: *See—*
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Tabor, Warner H.: *See—*
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Tabor, William J., to Bell Telephone Laboratories, Incorporated. Word organized optical memory. 3,438,005, 4-8-69, Cl. 340-173.
Tabor, William J., to Bell Telephone Laboratories, Incorporated. Birefringent device for forming multiple images. 3,438,692, 4-15-69, Cl. 350-157.
Tabor, William J.: *See—*
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Tabourin, Jean F., to Bureau de Recherches Geologiques et Minieres, and Minerais et Metaux. Installation for automatic attack of materials with a view to their chemical analysis. 3,466,146, 9-9-69, Cl. 23-253.
Tabuchi, Norio: *See—*
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Taccone Corporation: *See—*
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Tacey, Charles Arthur, to Philograph Publication Limited. Didactic device for teaching mathematics to children. 3,435,541, 4-1-69, Cl. 35-31.
Tacey, Clarence J.: *See—*
Meyer, Victor E.; Tacey, Clarence J.; and Houggy, Dennis E.,3,422,038.
Tachick, Henry N., to General Electric Company. Body organ electrode. 3,472,234, 10-14-69, Cl. 128-418.
Tachimoto, Kazuo; Kamoshida, Tsugio; and Akagawa, Tsugio, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Process of manufacturing small castings of ferroalloy. 3,429,362, 2-25-69, Cl. 164-70.
Tack, Carl E., to Amsted Industries Incorporated. Railway car roll stabilizer. 3,482,530, 12-9-69, Cl. 105-199.
Tack, Carl E., to Amsted Industries Incorporated. Reinforced railway truck bolster. 3,482,531, 12-9-69, Cl. 105-226.
Tack, Willy Pieter: *See—*
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Tackabery, Richard E. Three-function portable recorder. 3,453,644, 7-1-69, Cl. 346-32.
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Tacoma Millwork Supply Company: *See—*
Bucholz, Allan A., 3,439,377.
Tada, Yasuo, to Mitsubishi Denki Kabushiki Kaisha. Apparatus for controlling ignition time of automobile engine. 3,478,729, 11-18-69, Cl. 123-117.
Tada, Yoshinosuke; Mizuno, Syoji; Kashima, Syunsaku; Yasui, Seiichi; and Sugiura, Taku, to Yahagi Seitetsu Kabushiki Kaisha. Damp grinding for agglomeration. 3,420,453, 1-7-69, Cl. 241-15.
Tadanier, John Soloman, to Abbott Laboratories. 6,17,19-Substituted 3α,5α-cycloandrostanes. 3,450,725, 6-17-69, Cl. 260-397.4
Tadao Yamaoka: *See—*
Yamada, Tadashi; and Tsujimoto, Shinichi, 3,443,553.
Taddeo, Clifford, F.: *See—*
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Tadenuma, Koji, to Kokusai Denshin Denwa Kabushiki Kaisha. Regeneration system for a transmitted telegraph signal. 3,436,481, 4-1-69, Cl. 178-70.
Tado, Hiroshi, to Yanmar Diesel Engine Co., Ltd. Suction device for rotary piston internal combustion engine. 3,424,135, 1-28-69, Cl. 123-8.
Tado, Keishi: *See—*
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Taebel, Wilbert A.; and Hoekstra, Gerard W. Pyrolytic beryllia. 3,484,278, 12-16-69, Cl. 117-106.
Taebel, Wilbert A.: *See—*
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Taesler, Rudolf, to Zeiss Ikon Aktiengesellschaft. Gripper feed mechanism for cinematographic apparatus. 3,472,437, 10-14-69, Cl. 226-67.

Tafel, Leonard: *See—*
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Taft, David D.: *See—*
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Taft, David D., to Ashland Oil & Refining Company. Water dispersible polyalkylene glycol modified, non-drying alkyd resins. 3,437,618, 4-8-69, Cl. 260-22.
Taft, David D., to Ashland Oil & Refining Company. Vinylation of fatty substances. 3,453,224, 7-1-69, Cl. 260-22.
Taft, David D., to Ashland Oil & Refining Company. Self-catalyzed curable compositions containing an epoxy and a vinyl modified acidic polyester. 3,455,858, 7-15-69, Cl. 260-22.
Taft, David D. Curable composition containing epoxy and vinyl modified polyester. 3,463,749, 8-26-69, Cl. 260-22.
Graver, Richard B.; Heidecker, Stephen C.; and Taft, David D.,3,481,735.
Wallman, Walter A.; and Taft, David D.,3,485,781.
Taft, Ernest A., Jr.; and Gray, Peter V., to General Electric Company. Processes of epitaxial deposition or diffusion employing a silicon carbide masking layer. 3,451,867, 6-24-69, Cl. 148-175.
Taft, Lewis G.: *See—*
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Taga, Jun. Apparatus for moulding sections of circularly bent tubing from thermoplastic material. 3,425,092, 2-4-69, Cl. 18-12.
Taga, Jun. Machine for molding thermoplastic synthetic resins. 3,454,989, 7-15-69, Cl. 18-30.
Tagami, Katsutoshi, to Kabushiki Kaisha Honda Gijutsu Kenkyusho. Electric generating apparatus. 3,424,974, 1-28-69, Cl. 322-27.
Tager, Alexandr Semnovich: *See—*
Golant, Mikhail Borisovich; Negirev, Alexandr Andreevich; Tager, Alexandr Semnovich; Pobedonostsev, Alexandr Sergeevich; Zjulina, Elena Aristarkhovna; and Samorodova, Galina Alexandrovna,3,436,690.
Taggart, Everett Ray, to Phillips Petroleum Company. Apparatus for preserving biological and like preparations. 3,448,556, 6-10-69, Cl. 53-102.
Taggart, Everett R. Desiccator apparatus including improved vacuum bottle capping arrangement. 3,451,189, 6-24-69, Cl. 53-112.
Taggart, Harriet A. Casing perforating and screen plug setting device. 3,430,711, 3-4-69, Cl. 175-4.52
Taggart, Harriet A. Casing perforating and screen plug setting device. 3,461,977, 8-19-69, Cl. 175-4.5
Taggart, John H.: *See—*
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Taggart, Lawrence T., to Borg-Warner Corporation, mesne. Seat belt retractor. 3,465,983, 9-9-69, Cl. 242-107.11
Taggart, Melvin C. Primer attachment for carburetors. 3,430,933, 3-4-69, Cl. 261-34.
Taggart, Percy Royce, to Challenge-Cook Bros., Incorporated. Transfer trailer drawbar device. 3,420,390, 1-7-69, Cl. 214-38.
Tagiri, Koichi; Iwai, Masuo; and Nikaido, Yoshiwaka, to Yawata Iron & Steel Co., Ltd. Device for charging alloyed iron and secondary raw materials into a steelmaking furnace. 3,435,968, 4-1-69, Cl. 214-35.
Tagliasacchi, Ercole, to Officine Meccaniche Cigardi S.p.A.-O.M.C.S.A. Torque equalizing control arrangement for a series of driven units. 3,452,261, 6-24-69, Cl. 318-77.
Taglieber, Kurt: *See—*
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Taguchi, Hanzo, to Nippon Gakki Seizo Kabushiki Kaisha. Piano sound board assembly with auxiliary board. 3,444,771, 5-20-69, Cl. 84-194.
Taguchi, Hanzo, to Nippon Gakki Seizo Kabushiki Kaisha. Arrangement for fitting a sounding board assembly in a piano. 3,459,091, 8-5-69, Cl. 84-192.
Taguchi, Hanzo; and Suzuka, Tsuneo, to Nippon Gakki Seizo Kabushiki Kaisha. Perforated support for piano sounding board. 3,472,112, 10-14-69, Cl. 84-192.
Taguchi, Toshio: *See—*
Miyake, Yasuhiko; Adachi, Saburo; Taguchi, Toshio; Hayashi, Toshio; Ito, Seiji; Yamauchi, Tadafumi; and Minomiya, Katsumi,3,457,226.
Tahara, Hideo. Method for molding thermoplastic plastics. 3,449,481, 6-10-69, Cl. 264-99.
Tahara, Sanae, to Asahi Breweries Ltd. Method of making cereal malt. 3,472,737, 10-14-69, Cl. 195-69.
Tahara, Tadasu: *See—*
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Tahara, Tadasu; Takubo, Tadashi; and Hachiya, Isao, to Nitto Kasei Co., Ltd. Process for preparing triorganotin halides and bis(triorganotin)oxides. 3,475,473, 10-28-69, Cl. 260-429.7
Tahara, Tetsuya: *See—*
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Taien, Morris. Adjustable flush tank valve for water closets. 3,438,064, 4-15-69, Cl. 4-56.
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Tairraz, Paul, to Etablissements Carpano and Pons. Adapter for flexible tubing. 3,454,290, 7-8-69, Cl. 285-249.
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Thomas, Lowell E., to Dynamics Research Corporation. Method of making a monometallic mask. 3,449,221, 6-10-69, Cl. 204-15.

Thomas, Lucius Ponder: *See—*
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Thomas, Manuel A., to Deering Milliken Research Corporation. Coated baby panty. 3,439,678, 4-22-69, Cl. 128-284.

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Thomas, Manuel A., to Deering Milliken Research Corporation. Coating. 3,462,294, 8-19-69, Cl. 117-121.

Thomas, Marvin C. Remote controlled traction device for mounting and demounting on vehicle wheels. 3,422,870, 1-21-69, Cl. 152-214.

Thomas, Morton I.: *See—*
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Thomas, Neil L., to Shell Oil Company. Insulating composition and method of application. 3,468,687, 9-23-69, Cl. 106-281.

Thomas, Neil L.; and Petrini, Albert A., to Control Data Corporation. Program protection arrangement. 3,465,297, 9-2-69, Cl. 340-172.5

Thomas, Otto, to Schneider, Jos., & Co. Optische Werke. Control mechanism for camera objective or parts thereof. 3,482,500, 12-9-69, Cl. 95-45.

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Thomas, Patrick H.; and Holland, Gary R. Ruberoid Co., The Artificially colored mineral granules. 3,420,691, 1-7-69, Cl. 117--062

Thomas, Paul A., to General Motors Corporation. Parts detector control. 3,480,941, 11-25-69, Cl. 340-259.

Thomas, Paul M.; Wright, Lawrence W.; Crile, Eugene E.; Tolleson, Leon H.; and Parmer, Jesse N., to Builders Equipment Company. Brick stacking machine. 3,471,036, 10-7-69, Cl. 214-6.

Thomas, Paul R.: *See—*
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Thomas, Rainer; Keiler, Wilfred; and Weber, Paul, to Phrix-Werke Aktiengesellschaft. Device for spinning viscose. 3,458,901, 8-5-69, Cl. 18-8.

Thomas, Richard E.: *See—*
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Thomas Richard H.: *See—*
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Thomas, Richard J.: *See—*
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Thomas, Robert Albert, to Trefileries Leon Bekaert, PVBA. Highway safety fence posts. 3,450,387, 6-17-69, Cl. 256-13.1

Thomas, Robert J., to United States of America, Atomic Energy Commission. Reflective attenuation and display of pulse signal by means of an abrupt impedance transition in a transmission line. 3,471,783, 10-7-69, Cl. 324-114.

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Thomas, Robert S. Means for cleaning screens in place in a pipeline. 3,469,705, 9-30-69, Cl. 210-411.

Thomas, Robert Warren; Huebner, Edward J.; and Yerger, Harold, to United States of America, Air Force. Lapping device. 3,455,067, 7-15-69, Cl. 51-237.

Thomas, Roy P., to Pan American Petroleum Corporation. Removable subsea drilling guide arm base. 3,464,489, 9-2-69, Cl. 166-0.5

Thomas, Samuel M., Jr.: *See—*
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Thomas, Thomas W. Automatic crane boom stop about a vertical axis. 3,447,692, 6-3-69, Cl. 212-39.

Thomas, Walter C., to Beckman Instruments, Inc. Bilateral electronic switching circuit employing light-sensitive control element and FET input. 3,467,836, 9-16-69, Cl. 307-249.

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Thomas, Wilbur E.; and Nickolaus, Arthur T. Collator. 3,463,481, 8-26-69, Cl. 270-58.

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Thomas, William Kenney. Pneumatic lifting apparatus. 3,484,007, 12-16-69, Cl. 214-672.

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Thome, William Leonard, to Midland-Ross Corporation. Control system. 3,446,273, 5-27-69, Cl. 165-26.

Thomford, William F., to Conwed Corporation. Reversible, disposable chalkboard eraser pad, and holder therefor. 3,444,579, 5-20-69, Cl. 15-118.

Thominet, Michel Leon; and Engelhardt, Edward L., to Societe D'Etudes Scientifiques et Industrielles de l'Ile-de-France. Treatment of emesis in mammals with substituted methylenedioxy benzamides. 3,423,512, 1-21-69, Cl. 424-282.

Thomison, William C., to Dow Chemical Company, The. Layer magnesium containing structure. 3,474,732, 10-28-69, Cl. 102-101.

Thomison, William C.; and Slykhouse, Thomas E., to Dow Chemical Company, The. High pressure explosive compositions and method using hollow glass spheres. 3,456,589, 7-22-69, Cl. 102-23.

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Thompson, Bernard F.; and McDonald, William L., to International Business Machines Corporation. Programming apparatus on a document printer. 3,447,134, 5-27-69, Cl. 340-172.5
Thompson, Brian Hoyle: *See—*
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Thompson, Francis T.; and Wavre, Andre, to Westinghouse Electric Corporation. Phase measuring system for electric power networks. 3,469,082, 9-23-69, Cl. 235-151.31
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Thompson, Moody C., Jr.; and Wood, Lockett E., to United States of America, Commerce. Optical distance measuring equipment utilizing two wavelengths of light in order to determine and compensate for the density of the air. 3,437,820, 4-8-69, Cl. 250-217.
Thompson, Moody C., Jr.; and Wood, Lockett E., to United States of America, Commerce. Radio-optical refractometer for measuring integrated water vapor refractivity. 3,437,821, 4-8-69, Cl. 250-218.
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Thompson, Ted E., to Bethlehem Steel Corporation. Highway barrier. 3,476,362, 11-4-69, Cl. 256-13.1
Thompson, Theodore F. Barge coupling assembly. 3,430,601, 3-4-69, Cl. 114-235.

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Thompson, Thomas K., to United States of America, Atomic Energy Commission. Method of reducing a radioactive waste solution to dryness. 3,479,295, 11-18-69, Cl. 252-301.1
Thompson, Thomas R. Pull tab container having a tearaway and a flexible bladder in the container attached to the pull tab. 3,454,197, 7-8-69, Cl. 222-105.
Thompson, Thomas W. Graphical to electrical function translator. 3,441,922, 4-29-69, Cl. 340-182.
Thompson, Tom H., to Ford Motor Company. Fuel pump system. 3,476,145, 11-4-69, Cl. 137-565.
Thompson, Truman F., to Brower Manufacturing Co. Gas heating unit for brooder. 3,429,306, 2-25-69, Cl. 126-92.
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Thompson, Vernon F. Carburetor fuel inlet valve. 3,454,036, 7-8-69, Cl. 137-329.04
Thompson, Vernon R., to Crucible Steel Corporation. Method for producing dispersioned hardenable steel. 3,450,528, 6-17-69, Cl. 75-203.
Thompson, Walter W. Acoustical ceiling structure and panel therefor. 3,452,496, 7-1-69, Cl. 52-145.
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Thompson, Wilbur O. Novelty pencil holding stand. 3,471,032, 10-7-69, Cl. 211-69.1
Thompson, William B., to General Motors Corporation. Power steering system with hydraulic reaction. 3,433,127, 3-18-69, Cl. 91-372.
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Thompson, William H.; and Ballweber, Edward G., to Nalco Chemical Company. Method of purifying an impure quaternary ammonium salt by addition of an epoxide. 3,468,816, 9-23-69, Cl. 260-2.
Thompson, William H.; and Hunkeler, Edwin C., to United States of America, Navy. Ring specimen cutting jig. 3,456,541, 7-22-69, Cl. 83-415.
Thompson, William J., to Bell Telephone Laboratories, Incorporated. Coaxial capacitor. 3,441,869, 4-29-69, Cl. 330-199.
Thompson, William J., to Cubic Industrial Corporation. Instrument landing system. 3,482,247, 12-2-69, Cl. 343-108.
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Thomson, Charles Leslie. Enlarger head for use with variable contrast paper. 3,469,914, 9-30-69, Cl. 355-32.
Thomson, Charles, to Cable Belt Limited. Rope-driven conveyors. 3,424,297, 1-28-69, Cl. 198-203.
Thomson, David W., to United States of America, Air Force. Polyxylylidenes. 3,422,071, 1-14-69, Cl. 260-67.
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Thomson, John B. Trunnion for linear anti-friction bearings. 3,438,683, 4-15-69, Cl. 308-6.
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Thomson, John Stevenson. Jib crane. 3,486,635, 12-30-69, Cl. 212-58.
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Thomson, William W., to Continental Can Company, Inc. Leak detector for paper cups. 3,461,716, 8-19-69, Cl. 73-45.1
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Thor, Onarheim, to Stord Bartz Industri A/S. Drying apparatus for drying moist organic or inorganic materials. 3,426,838, 2-11-69, Cl. 165-87.
Thorburn, David H., to Powers Regulator Company, The. Miniature recorder receiver. 3,426,353, 2-4-69, Cl. 346-50.
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Thorburn, David H., to Powers Regulator Company, The, mesne. Fluidic memory element. 3,465,777, 9-9-69, Cl. 137-112.
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Thordarson, Jon. Apparatus for manufacturing film from thermoplastic resinous film-forming materials. 3,445,891, 5-27-69, Cl. 18-14.
Thordarson, Petur. Pore pressure. 3,456,509, 7-22-69, Cl. 73-406.
Thorden, Karl Gustaf Birger. Auxiliary propulsion device for ships. 3,464,380, 9-2-69, Cl. 115-29.
Thore, Thomas J., to Singer Company, The. Pneumatic takedown for hosiery machines. 3,443,403, 5-13-69, Cl. 66-149.
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Thorel, John P.; Lee, Chia Huan; and Sherwood, Donald G., to Westinghouse Electric Corporation. Linear motor structure. 3,448,303, 6-3-69, Cl. 310-14.
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Thoren, Georg M. I.; and Lundahl, Lennart V. S., to Alfa-Laval AB. Seal between stationary and rotary parts. 3,476,397, 11-4-69, Cl. 277-83.
Thoren, Olle G.; and Axelson, Hans A., to Refrigeration System AB. Refrigerating method and system for maintaining substantially constant temperature. 3,477,240, 11-11-69, Cl. 62-115.
Thoreson, Robert E.; and Maus, Arthur E., to Thoreson-McCosh, Inc. Tilt table. 3,425,365, 2-4-69, Cl. 108-6.
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Thorn, Ewald Reinhard; and Passavant, Rudolf Christian, to Passavant-Werke. Waste water treatment method and apparatus. 3,487,017, 12-30-69, Cl. 210-46.

Thorn, Ewald Reinhard; Weber, Wilhelm; Lemberg, Ernst Siegfried; and Blanche, Josef, to Passavant-Werke. Apparatus for scum removal. 3,437,212, 4-8-69, Cl. 210-525.

Thorn, Frank H., to Phillips Petroleum Company. Regenerating catalyst employing indirect heat exchange in combination reactor-absorber stripper operation. 3,474,036, 10-21-69, Cl. 252-411.

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Thornber, John Charles Powell: *See—*
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Thornber, John Charles Powell, to C.A.V. Limited. Liquid fuel supply systems for internal combustion engines. 3,465,733, 9-9-69, Cl. 123-32.

Thornber, John Charles Powell, to C.A.V. Limited. Liquid fuel supply systems for internal combustion engines. 3,481,315, 12-2-69, Cl. 123-32.

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Thornblad, Rolf Filip Gunnar; and Frode, Per Enar Lennart, to Svenska Ackumulator Aktiebolaget Jungner. Multicell storage battery. 3,449,170, 6-10-69, Cl. 136-134.

Thornburg, Francis L.; and Turnley, George E., Jr., to Lockheed Aircraft Corporation. Water jet propulsion apparatus. 3,446,177, 5-27-69, Cl. 115-16.

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Thorne-Thomsen, Thomas, to Olin Mathieson Chemical Corporation. Quick connect-disconnect coupling. 3,439,943, 4-22-69, Cl. 285-316.

Thorner, Robert H. Pressure generator device. 3,443,441, 5-13-69, Cl. 73-502.

Thorner, Robert H. Automotive speed control apparatus. 3,476,206, 11-4-69, Cl. 180-108.

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Thornhill, Alexander F., to United States of America, Navy. Phase locked loop servo system for direct measurement of relative phase. 3,440,535, 4-22-69, Cl. 324-83.

Thornhill, Philip G.; and Coulter, Edward H., to Falconbridge Nickel Mines Limited. Method of precipitating metals as sulphides. 3,450,495, 6-17-69, Cl. 23-135.

Thornhill, William J.; and Welty, Richard O., to Phillips Petroleum Company. Control system to produce cyclical rotary motion. 3,467,905, 9-16-69, Cl. 318-443.

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Thornsen, Bernard L.; Henrich, Robert S.; and Mayer, Leo F., to Bendix Corporation, The. Direct current motor controller. 3,480,849, 11-25-69, Cl. 318-257.

Thornton, Charles R. Mobile cart washer. 3,444,867, 5-20-69, Cl. 134-123.

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Thornton, James F., to Lummus Company, The. Process for absorbing SO_2 from gases with alkaline earth metal oxides. 3,475,121, 10-28-69, Cl. 23-178.

Thornton, James F.; and Sze, Morgan C., to Lummus Company, The. Stack gas cleaning process. 3,456,622, 7-22-69, Cl. 122-379.

Thornton, James R., to Atlas Chemical Industries, Inc. Emulsified nitric acid blasting composition and method of preparing same. 3,442,727, 5-6-69, Cl. 149-46.

Thornton, Kenneth, to Rolls-Royce Limited. Rotary piston engine gearing. 3,425,620, 2-4-69, Cl. 230-145.

Thornton, Ray F. Locking differential. 3,438,282, 4-15-69, Cl. 74-711.

Thornton, Roger L., to Du Pont de Nemours, E. I., and Company. Boron trifluoridehydrogen fluoride catalyzed synthesis of poly (aromatic sulfone) and poly (aromatic ketone) polymers. 3,442,857, 5-6-69, Cl. 260-47.

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Thornton, William A., Jr., to Westinghouse Electric Corporation. Method of activation of phosphor. 3,431,134, 3-4-69, Cl. 117-33.5

Thornton, William A., Jr., to Westinghouse Electric Corporation. Polychromatic luminescent devices and method of manufacture. 3,460,962, 8-12-69, Cl. 117-33.5

Thornton, William E. Digitized clinical thermometer. 3,477,292, 11-11-69, Cl. 73-362.

Thornwall, Joseph C., to United States of America, National Aeronautics and Space Administration. Regulated D.C. to D.C. converter. 3,427,525, 2-11-69, Cl. 321-2.

Thorp, Benjamin Adelbert, to Huyck Corporation. Water extraction devices. 3,432,385, 3-11-69, Cl. 162-352.

Thorp, James H., to Smyth Manufacturing Company, The. Method of forming and applying tubular back linings to fillers. 3,420,723, 1-7-69, Cl. 156-201.

Thorp, James H., to Smyth Manufacturing Company, The. Book pressing machine with removable creaser irons and tool for removing same. 3,438,075, 4-15-69, Cl. 11-1.

Thorp, James H., to Smyth Manufacturing Company, The. Book pressing machine with improved presser plate and conveyor mechanism and with improved dual channel arrangement. 3,469,270, 9-30-69, Cl. 11-1.

Thorp, James T., Jr., to Lambert Products, Inc. Compressing machine for sealig strip. 3,458,620, 7-29-69, Cl. 264-320.

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Thorpe, Foster B., to Honeycomb Systems, Inc. Method of and rivet assembly for joining metal panels. 3,477,336, 11-11-69, Cl. 85-68.

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Throckmorton, Morford C.; and Saltman, William M., to Goodyear Tire & Rubber Company, The. Method for the polymerization of butadiene and butadiene in mixture with other diolefins using (1) organometallics, (2) organic Ni or Co, and (3) BF_3 complexed with aldehydes, ketones, esters and nitriles. 3,483,177, 12-9-69, Cl. 260-94.3
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Throop, Lewis J., to Syntex Corporation. Electrolytic reduction of aromatic steroids. 3,444,057, 5-13-69, Cl. 204-59.
Throop, Lewis J., to Syntex Corporation. Electrolytic reduction of cyclopentanophenanthrene derivatives. 3,444,059, 5-13-69, Cl. 204-72.
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Thull, John F., to Sta-Hi Corporation. Antijamming device for publication conveyor. 3,464,537, 9-2-69, Cl. 198-89.
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Thumim, Carl; Herman, Nicholas; and Des Jardins, James, to Miehle-Goss-Dexter, Incorporated. Continuous three-knife trimmer. 3,424,044, 1-28-69, Cl. 83-255.
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Thunberg, Leander O.: *See—*
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Thurman, Hoyt Dean, to Singer Company, The. Modular creel. 3,452,947, 7-1-69, Cl. 242-131.
Thurman, Jesse B. Boat trailer tongue extension apparatus. 3,428,336, 2-18-69, Cl. 280-482.
Thurman, Merrell E.; and Thurman, George E. Ice cream freezer. 3,452,555, 7-1-69, Cl. 62-298.
Thurn, Robert Dean, to Du Pont de Nemours, E. I., and Company. Method of increasing the molecular weight of olefin polymers by use of a polyisocyanate. 3,467,628, 9-16-69, Cl. 260-77.5
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Thurston, Edward G., to Bell & Howell Company. Color synchronization for two color per line television systems. 3,456,069, 7-15-69, Cl. 178-5.4
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Thurston, Franklin J.; and Nazali, Joseph M., to Kaman Aircraft Corporation. Article packaging or handling apparatus. 3,456,424, 7-22-69, Cl. 53-154.
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Thylefors, Henric Wilhelm, to Alfa-Laval AB. Method and apparatus for shockless feeding of liquid to the separating chamber of a centrifuge. 3,468,475, 9-23-69, Cl. 233-29.
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Tibbet, James W. Windshield wiper and washer assembly. 3,427,675, 2-18-69, Cl. 15-250.04
Tibbet, James W. Combination windshield wiper blade and washer assembly. 3,440,678, 4-29-69, Cl. 15-250.04
Tibbetts, Ernest L., to Burroughs Corporation. Pushbutton calculator. 3,446,433, 5-27-69, Cl. 235-145.
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Tibbs, Geoffrey T. Storage and handling of chemical substances. 3,462,008, 8-19-69, Cl. 206-47.
Tibbs, Oscar F., 1/2 to Buzick, John W. Air-tight distributor cap. 3,441,690, 4-29-69, Cl. 200-19.
Tiberio, Giuseppe. Automatic progressive transmission. 3,435,710, 4-1-69, Cl. 74-752.
Tibol, George J., to General Instruments Corporation. Process and apparatus for making thin film capacitors. 3,457,614, 7-29-69, Cl. 29-25.42
Tibol, George J., to Solitron Devices, Inc. Schottky barrier semiconductor device. 3,476,984, 11-4-69, Cl. 317-234.
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Tierney, Donald R., to York, William F., and Jensen, William S., d/b/a Turf-Vac. Turf vacuuming apparatus. 3,461,479, 8-19-69, Cl. 15-339.

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Tierney, Paul A.; and Hedrick, Ross M., to Monsanto Company. Polymerization of lactams. 3,451,963, 6-24-69, Cl. 260-37.
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Tietema, Casper J.; and Rodak, Donald M., to Agfa-Gevaert Aktiengesellschaft. Chemical dispenser. 3,482,269, 12-9-69, Cl. 4-225.
Tietz, Raymond F.; and Kenyon, William G., to Du Pont de Nemours, E. I., and Company. 1-Cyanocyclobutene monomer and polymer and their preparation. 3,468,861, 9-23-69, Cl. 260-88.7
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Tiger, Emil; Corman, Erskine G.; and Reick, Kenneth R., to Formfoto Manufacturing Company. Paper guide for electrophotographic copying machine and the like. 3,424,529, 1-28-69, Cl. 355-51.
Tiger, Emil; Corman, Erskine G.; and Reick, Kenneth R., to Formfoto Manufacturing Company. Developer tray and supply tank assembly. 3,461,788, 8-19-69, Cl. 95-95.
Tiger, Emil; Corman, Erskine G.; and Reick, Kenneth R., to Sunbeam Business Equipment Co. Electrophotographic copying machine. 3,476,479, 11-4-69, Cl. 355-64.
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Tigges, Gerhard; and Henning, Walter. Lap carrier resiliently compressible in axial direction. 3,465,984, 9-9-69, Cl. 242-118.11
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Tillman, Max L., to Sunbank Electronics, Inc. Odometer for golf cart. 3,458,128, 7-29-69, Cl. 235-95.
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Tilney-Bassett, Julian Frodo, to Imperial Smelting Corporation (N.S.C.) Limited. Preparation of highly fluorinated aromatic compounds. 3,424,804, 1-28-69, Cl. 260-650.
Tilney, Ralph B.; and Chapman, George H., to Alco Controls Corporation. Parallel check valve such as used for vehicle braking. 3,450,158, 6-17-69, Cl. 137-598.
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Timmerman, Julius W., Jr., to Allis-Chalmers Manufacturing Company. Means for paralleling direct current sources having different output characteristics. 3,443,115, 5-6-69, Cl. 307-66.
Timmerman, Robert, to Radiation Processing, Inc. Radiation grafting of mono- and di-acrylates of lower polyhydric alcohols and polyhydric alcohols and polyhydric alcohol ethers to cotton and wool. 3,467,488, 9-16-69, Cl. 8-116.
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Timmons, Archie Durwood, to Tri-State Oil Tool Industries, Inc. Method of handling a well pipe. 3,422,524, 1-21-69, Cl. 29-429.
Timmons, Archie Durwood, to Tri-State Oil Tool Industries, Inc. Apparatus for protecting well pipe. 3,434,191, 3-25-69, Cl. 29-200.
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Timmons, William D., Jr.; and Worsham, Walter C., to Celanese Corporation, and Fiber Industries, Inc. Process for producing polyester yarn. 3,481,136, 12-2-69, Cl. 57-164.
Timms, Leon M.; and McKusick, John C. Manufacture of adhesive shipping units. 3,465,354, 9-2-69, Cl. 93-61.
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Timms, Richard M., to Troxel Manufacturing Company. Safety reflector means for bike seat structure. 3,463,439, 8-26-69, Cl. 248-480.
Timms, Richard M., to Troxel Manufacturing Company. Support means for a saddle. 3,486,727, 12-30-69, Cl. 248-397.
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Tims, Fred W., Jr., to Camson Manufacturing Company, The. Hand tool for cutting sheet material. 3,478,427, 11-18-69, Cl. 30-293.
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Tinman, Hugh J. Illuminated educational device. 3,452,456, 7-1-69, Cl. 35-34.
Tinnerman, George A. Utility clip. 3,431,607, 3-11-69, Cl. 24-243.
Tinnerman, George A. Mid-span deck wedge lock. 3,438,169, 4-15-69, Cl. 52-712.
Tinnerman, George A. Groove cutting rotating fastener. 3,456,705, 7-22-69, Cl. 151-38.
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Tinsley, Samuel W.; and King, Paul A., to Union Carbide Corporation. Epoxyoxacyclobutanes and polymers thereof. 3,457,193, 7-22-69, Cl. 260-2.
Tinsley, Samuel W.; Starcher, Paul S.; McGary, Charles W., Jr.; and Patrick, Charles T., Jr., to Union Carbide Corporation. Diepoxide compositions. 3,428,612, 2-18-69, Cl. 260-78.4
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Tinsley, William B. Swivel joint for wells being pumped. 3,477,748, 11-11-69, Cl. 285-267.
Tinsley, William D., Jr. Coin controlled actuating mechanism. 3,455,427, 7-15-69, Cl. 194-55.
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Tipton, Donald L., to General Motors Corporation. Method and apparatus for generating electric power. 3,449,601, 6-10-69, Cl. 310-11.
Tipton, Donald L., to General Motors Corporation. Method and apparatus for liquid MHD generator systems. 3,480,804, 11-25-69, Cl. 310-11.
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Tiraspolsky, Wladimir, to Institut Francais du Petrole, des Carburants et Lubrifiants. Drilling device. 3,455,402, 7-15-69, Cl. 175-327.
Tiraspolsky, Wladimir; and Rouviere, Roger, to Institut Francais du Petrole des Carburants et Lubrifiants. Ball thrust bearing for driving shaft subjected to axial thrust, particularly for turbodrill shaft. 3,449,030, 6-10-69, Cl. 308-230.
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Tissot Dupont, Lucien Francois Simon, to Du Pont, S. T., (Societe Anonyme). Self-contained cartridge housing a porous element for use in gas lighters. 3,452,522, 7-1-69, Cl. 55-491.
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Tobey, Frederic Samuel; and White, Roby Byron, to Brady, W. H., Co. Position control method and apparatus. 3,484,614, 12-16-69, Cl. 250-204.

Tobey, Hubert E., to Continental Baking Company. Cake de-panner. 3,451,570, 6-24-69, Cl. 214-311.

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Tobey, Richard, to Dartex, division of Tally Corporation. Magnetic tape transport using radiation sensitive means to signal buffer storage arm position. 3,470,382, 9-30-69, Cl. 250-219.

Tobey, Richard, to Tally Corporation. Tape transport. 3,478,985, 11-18-69, Cl. 242-55.

Tobey, Stephen W., to Dow Chemical Company, The. Extraction apparatus. 3,441,481, 4-29-69, Cl. 202-169.

Tobia, Vincent, to Pirelli General Cable Works Limited. Apparatus for deforming tubing. 3,451,242, 6-24-69, Cl. 72-77.

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Toby, Arthur G. Vacuum operated reciprocating motor. 3,481,250, 12-2-69, Cl. 91-232.

Toby, Dennis E., to Addressograph-Multigraph Corporation. Automatic copying machine. 3,484,168, 12-16-69, Cl. 355-106.

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Touchman, William S., to National Cash Register Company, The. Intermittent motion apparatus. 3,460,343, 8-12-69, Cl. 60-6.
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Townsend, Charles L.; and McGowan, Jared M., to Telepro Industries, Incorporated. Cartridge tape recorder play-back instrument. 3,420,965, 1-7-69, Cl. 179-100.2

Townsend, David James, to C.D.T. Design Consultants Limited. Weel positioning arrangement for pallet vehicle. 3,424,472, 1-28-69, Cl. 280-47.11

Townsend, Douglas William. Seat belt system and arrester. 3,484,134, 12-16-69, Cl. 297-386.

Townsend, Edwin F., to Easco Leasing Corporation. Method and apparatus for removing backing sheets from thin laminates. 3,451,872, 6-24-69, Cl. 156-254.

Townsend, Edwin F., to Easco Leasing Corporation. Apparatus for removing individual laminates from a continuous backing sheet. 3,452,712, 7-1-69, Cl. 118-249.

Townsend, Edwin F.; and Young, Stanley C., to Easco Leasing Corporation. Method and apparatus for removing backing sheets from thin laminates. 3,477,896, 11-11-69, Cl. 156-584.

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Townsend, Miles A., to Westinghouse Electric Corporation. Control system for turbines. 3,446,483, 5-27-69, Cl. 253-59.

Townsend, Palmer W.; Laird, William B.; and Halfon, Albert, to Air Reduction Company, Incorporated. Apparatus for the production of carbon dioxide snow. 3,443,389, 5-13-69, Cl. 62-35.

Townsend, Ray F., to Townsend Harvester Corporation. Mechanical harvester for fruit trees. 3,447,293, 6-3-69, Cl. 56-328.

Townsend, Richard L.; and Weldon, Edward J., Jr., to Bell Telephone Laboratories, Incorporated. Error control system. 3,475,724, 10-28-69, Cl. 340-146.1

Townsend, Robert D., Jr., to Mobil Oil Corporation. Method and apparatus for lightening the load on a subsea conductor pipe. 3,434,550, 3-25-69, Cl. 175-5.

Townsend, Robert W. Method of removing coatings caused by storage of meal or flour in dry bulk form and particularly for preparing for re-use lined railroad hopper cars. 3,424,616, 1-28-69, Cl. 134-7.

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Tyree, Lewis, Jr. Reciprocating pump. 3,430,576, 3-4-69, Cl. 103-178.
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Biship, Otis L. Broadband choke for antenna structure. 3,428,923, 2-18-69 Cl. 333-97.
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Wong, Robert Y. Plurality of photosensitive cells on a pyrmidical base for planetary trackers. 3,448,273, 6-3-69 Cl. 250-203.

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Verkaik, John. Fluid ejection apparatus. 3,482,544, 12-9-69, Cl. 118-2.
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Veronica, Giacinto, to Montecatini Edison S.p.A. Leaching potassium salts from mixtures in the presence of soluble ferric, chromic and aluminum salts. 3,441,386, 4-29-69, Cl. 23-297.
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Vertesi, Tibor Miklos; and Philipps, Bruce Allan, to Gamma Engineering Limited. Spray control mechanism for continuous casting machines. 3,480,211, 11-25-69, Cl. 239-450.
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Vervier, Ernest Henri, to Fabrique Nationale d'Armes de Guerre, Societe Anonyme. Automatic firearm with burst control means. 3,440,925, 4-29-69, Cl. 89-129.
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Vesely, Jerome A.; and Schmerling, Louis, to Universal Oil Products Company. Substitution of aromatic compounds. 3,481,989, 12-2-69, Cl. 260-613.
Vesely, Kenneth D., to Universal Oil Products Company. Hydrocarbon conversion catalyst. 3,457,190, 7-22-69, Cl. 252-451.
Vesely, Kenneth D., to Universal Oil Products Company. Method of spherical catalyst preparation. 3,472,791, 10-14-69, Cl. 252-448.
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Vette, Carl W. D. C. current regulator. 3,434,038, 3-18-69, Cl. 323-4.
Vetter, Ernst. Writing implement, especially ball-type pen. 3,464,774, 9-2-69, Cl. 401-110.
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Vezin, Andre Marcel, to Societe de Prospection Electrique Schlumberger, S.A. Borehole apparatus for investigating subsurface earth formations including a plurality of pad members and means for regulating the bearing pressure thereof. 3,423,671, 1-21-69, Cl. 324-1.
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Via, Hugh D., Jr. Electrophoresis migration chamber and method of using same. 3,445,360, 5-20-69, Cl. 204-180.
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Viater, Clement J., to Inland Steel Company. Octagonal pallets, blanks and methods for forming same and a container package utilizing the pallet. 3,474,901, 10-28-69, Cl. 206-65.
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Vichi, Ettore. Interchangeable elastic pad for abrading, grinding and sanding machine. 3,438,154, 4-15-69, Cl. 51-135.
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Vick, Howard A., to United States of America, National Aeronautics and Space Administration. Blood pressure measuring system for separating and separately recording D.C. signal and an A.C. signal. 3,467,837, 9-16-69, Cl. 307-260.
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Vick, Ralph L., to Bendix Corporation, The. Control valve providing means for minimizing seat wear. 3,451,429, 6-24-69, Cl. 137-625.65
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Weaver, Max A.; and Wallace, David J.,3,438,965.
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Wallace, Dean R., to Air Reduction Company, Incorporated. Jar closure assembly. 3,438,530, 4-15-69, Cl. 215-43.

Wallace, Dean R., to Air Reduction Company, Incorporated. Squeeze-bag resuscitator. 3,473,529, 10-21-69, Cl. 128-145.7

Wallace, Earl C., to General Engineering & Manufacturing Corporation. Cartop carrying case. 3,458,094, 7-29-69, Cl. 224-42.01

Wallace, Edwin G.: *See—*
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Wallace, Elmer E., to Controls Company of America. Gas pressure regulator having adjustable laterally located clock-type biasing spring. 3,463,183, 8-26-69, Cl. 137-505.41

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Wallace, Gordon L., to Aquapure, Inc., mesne. Sewage treatment apparatus. 3,471,020, 10-7-69, Cl. 210-152.

Wallace, Jacob L., Jr., to Susquehanna Corporation, The. Electronic transmitting device. 3,441,685, 4-29-69, Cl. 179-90.

Wallace, Jacob L., Jr., to Susquehanna Corporation, The. Pulse distortion measuring equipment. 3,456,079, 7-15-69, Cl. 178-69.

Wallace, Jacob L., Jr., to Susquehanna Corporation, The. Distortion system for introducing distortion into a pulse train. 3,482,117, 12-2-69, Cl. 307-265.

Wallace, Jacob L., Jr., to Susquehanna Corporation, The. Programmable printed circuit board. 3,486,160, 12-23-69, Cl. 339-17.

Wallace, Jacob Lightsey, Jr., to Susquehanna Corporation, The. Electronic transmitting device. 3,422,229, 1-14-69, Cl. 179-90.

Wallace, Jacob Lightsey, Jr., to Susquehanna Corporation, The. Distributor system for monitoring position and status of a number of points. 3,428,949, 2-18-69, Cl. 340-147.

Wallace, James B.; Hamilton, William W., Jr.; and Pigan, Edward A., to Westinghouse Electric Corporation. Electrical apparatus and self-lubricating contact. 3,482,202, 12-2-69, Cl. 339-22.

Wallace, James W. Device for cleaning pipes and tubes. 3,451,091, 6-24-69, Cl. 15-104.06

Wallace, John D.: *See—*
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Wallace, John Frederick; Butler, Roger David; and Adkin, Lancelot Alan, to Pressed Steel Fisher Limited. Machine for processing metallic sheet and strip material. 3,461,702, 8-19-69, Cl. 72-161.

Wallace, John H., to Emerson Electric Co. Speed control system incorporating regenerative drive. 3,477,000, 11-4-69, Cl. 318-197.

Wallace, John Watson; and Snow, Randolph Bernard, to Price Wilson Limited-Price Wilson Limitee. Ammunition holder. 3,424,298, 1-28-69, Cl. 206-3.

Wallace, Joseph D.: *See—*
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Wallace, Lawrence G.: *See—*
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Wallace, Leroy J. Cash register with means for producing electronic data processing input record. 3,441,206, 4-29-69, Cl. 235-60.29

Wallace, Milner W., to International Telephone and Telegraph Corporation. Tunnel cathode in matrix form with integral storage feature. 3,447,043, 5-27-69, Cl. 317-234.

Wallace, Richard B., to Oakland Corporation, The. Threaded fastener with friction lock insert. 3,478,800, 11-18-69, Cl. 151-7.

Wallace, Richard M., to United States of America, Atomic Energy Commission. Concentration of ions using ion selective membranes. 3,454,490, 7-8-69, Cl. 210-22.

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Wallace, Richard W., to Dresser Industries, Inc. Analog computer system for solving heat flow problems. 3,436,534, 4-1-69, Cl. 235-185.

Wallace, Robert S. Heat shielding ear protector. 3,452,365, 7-1-69, Cl. 2-209.

Wallace, Robert T., to Owens-Illinois, Inc. Melt elastic extruder and method. 3,422,177, 1-14-69, Cl. 264-176.

Wallace, Thomas J., to Esso Research and Engineering Company. Stabilization of petroleum distillates containing olefins. 3,485,604, 12-23-69, Cl. 44-64.

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Wallace, Wendell J., to Packaging Corporation of America. Package for a fragile product. 3,480,137, 11-25-69, Cl. 206-65.

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Wallach, Mark K.; and Yermakov, Alexis M., to Stow & Davis Furniture Company. Furniture construction. 3,479,102, 11-18-69, Cl. 312-195.

Wallan, Kenneth R. Articulated vehicles with individual axle reversing drive mechanisms. 3,481,418, 12-2-69, Cl. 180-23.

Wallden, Knut Anders Osborne, deceased0 (by Jonsson, Carl Lennart; legal representative). Method of and apparatus for sterilizing articles. 3,450,487, 6-17-69, Cl. 21-56.

Walldorf, Diann J., to Thomas & Betts Corporation. Identification tag. 3,486,257, 12-30-69, Cl. 40-2.

Wallen, Albert E., to United States of America, Navy, mesne. Underwater acoustic generator with variable resonant frequency. 3,458,855, 7-29-69, Cl. 340-5.

Wallenberger, Frederick T., to Du Pont de Nemours, E. I., and Company. Linear polycarbonamides from bis(4- carboxycyclohexyl)methane. 3,472,818, 10-14-69, Cl. 260-78.

Wallenfels, Karl Hans, to Fritz Hellige & Co., G.m.b.H. Microwave oven with rotatable shelf. 3,428,772, 2-18-69, Cl. 219-10.55

Wallenfels, Miklos, to Du Pont de Nemours, E. I., and Company. Process for producing wrinkle-free coated film. 3,458,334, 7-29-69, Cl. 117-7.

Wallenmeyer, Delmar E. Game apparatus with removable peg playing piece advancing means. 3,433,484, 3-18-69, Cl. 273-134.

Wallenstein, Mihaly, to Ganz Villamossagi Muvek. Device for supporting and direct cooling of turboalternator rotor end windings. 3,465,183, 9-2-69, Cl. 310-54.

Wallentowitz, Klaus D., to General Time Corporation. Electronic timer circuits providing switching at multiple intervals. 3,457,464, 7-22-69, Cl. 317-142.

Wallentowitz, Klaus D., to General Time Corporation. Electronic timer circuit having feedback provision. 3,484,656, 12-16-69, Cl. 317-142.
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Waller, Lyle G., to National Union Electric Corporation. Delayed action battery. 3,423,245, 1-21-69, Cl. 136-90.
Waller, Peter John; and Waterfield, Charles Jeffrey, to R. & R. Research Limited. Secrecy television apparatus with scrambled synchronizing signals. 3,460,161, 8-5-69, Cl. 178-5.1
Waller, Richard C.; and Keck, Max H., to Goodyear Tire & Rubber Company, The. Block copolyester containing crystallizable polymeric units and rubbery polyester units. 3,446,778, 5-27-69, Cl. 260-75.
Waller, Richard E. Wire insert. 3,459,248, 8-5-69, Cl. 151-14.
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Waller, Siegfried, to Siemens Aktiengesellschaft. Digitally programmed positioning motor control system for movable machine structure. 3,473,098, 10-14-69, Cl. 318-18.
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Walles, Wilhelm E.; and Leff, Stanley S., to Dow Chemical Company, The. Catalytic oxidation of sulfhydryl compound. 3,440,012, 4-22-69, Cl. 23-225.
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Wallin, Sven, to Aktiebolaget Svenska Flaktfabriken. Method of sealing guide joints. 3,439,406, 4-22-69, Cl. 29-450.
Wallinder, John Arne, to Catylators Limited. Control of current in electrolytic apparatus. 3,462,356, 8-19-69, Cl. 204-228.
Walling, Francis L., to Singer Company, The. Controlled loose stitching mechanism for chainstitch sewing machines. 3,465,701, 9-9-69, Cl. 112-245.
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Wallis, Rolland B., to General Motors Corporation. Variable power and variable direction engine and simple planetary phase changing device. 3,482,457, 12-9-69, Cl. 74-44.
Wallman, Walter A.; and Taft, David D., to Ashland Oil & Refining Company. Cross-linking of water-soluble or water-dispersible polyesters with dichromates. 3,485,781, 12-23-69, Cl. 260-22.
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Walls, Earl L., to Wyle Laboratories. Cabinet assembly. 3,425,762, 2-4-69, Cl. 312-111.
Walls, Edgar H., to Western Electric Company, Incorporated. Methods of and apparatus for eliminating icicle- like formations on wave soldered connections on circuit substrates. 3,465,415, 9-9-69, Cl. 29-471.1
Walls, Gordon W., to Commonwealth Scientific and Industrial Research Organization. Twisted thread assemblies. 3,443,370, 5-13-69, Cl. 57-34.
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Walsh, Edward N.; and Uhing, Eugene H., to Stauffer Chemical Company. Flame resistant phosphoramidate-polyester reaction products. 3,440,222, 4-22-69, Cl. 260-75.
Walsh, George M., to Raytheon Company. Acoustic mapping apparatus. 3,484,737, 12-16-69, Cl. 340-3.
Walsh, Helen A. Storage rack for vessel containing unstable material. 3,480,152, 11-25-69, Cl. 211-74.
Walsh, James A.; and White, Harlan V., to General Electric Company. Centrifugal pump with spherical-shaped casing. 3,437,047, 4-8-69, Cl. 103-111.
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Walter, George, to Malco Manufacturing Company, Inc. Buss strip. 3,434,094, 3-18-69, Cl. 339-17.
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Walters, Russell W., to Keystone Steel & Wire Company. Sliding door lock assembly. 3,437,364, 4-8-69, Cl. 292-113.
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Wiley, Bruce F., to Phillips Petroleum Company. Sonic logging apparatus. 3,447,127, 5-27-69, Cl. 340-18.
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Winberg, Ragnar W. Material stitching and guiding apparatus. 3,434,439, 3-25-69, Cl. 112-2.
Wince, Vearl S., to Holophane Company, Inc. Luminaire lens. 3,483,366, 12-9-69, Cl. 240-106.
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Wing, Willis G., to Sperry Rand Corporation. Rotary transformer for transmitting electrical signals. 3,439,556, 4-22-69, Cl. 74-5.6
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Winkler, Joseph, to Tenneco Chemicals, Inc., mesne. Method of producing gelled hydrocarbons employing polyurethanes. 3,460,922, 8-12-69, Cl. 44-7.
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Wolcott, Henry O., to Optimation, Inc. Wide-band direct-current amplifier having series- connected output vacuum tubes. 3,428,912, 2-18-69, Cl. 330-74.
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Wranosky, Donald D., to North American Rockwell Corporation. Closed loop feedback for machining. 3,483,795, 12-16-69, Cl. 90-13.5
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Znamirowski, Henry; and Roles, David J., to Eastern Products Corporation. Suspended ceiling. 3,457,688, 7-29-69, Cl. 52-573.
Zober, Walter; Ricci, John N.; and Pingitore, Domenick C. Bell, yoke and coil assembly for reciprocating signal devices. 3,451,057, 6-17-69, Cl. 340-396.
Zoberg, Joseph. Bidet system. 3,430,268, 3-4-69, Cl. 4-7.
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Zocholl, Stanley E., to I-T-E Circuit Breaker Company. Saturating current transformer for static relays. 3,434,011, 3-18-69, Cl. 317-33.
Zocholl, Stanley E., to I-T-E Imperial Corporation, mesne. Static time-overcurrent relay. 3,444,434, 5-13-69, Cl. 317-36.
Zocholl, Stanley E.; and Conrad, Richard R., to I-T-E Imperial Corporation, mesne. Static A.C. switching circuit. 3,478,250, 11-11-69, Cl. 317-33.
Zock, Hendrik Frits, to Lever Brothers Company. Contact mass for preparing hologenosilanes and process therefor. 3,446,829, 5-27-69, Cl. 260-448.2
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Zollinger, Joseph La Mar, to Minnesota Mining and Manufacturing Company. Catalyzed nitrile trimerization process. 3,470,176, 9-30-69, Cl. 260-248.
Zollinger, Richard J.; and Genofsky, John J., to Whittaker Corporation, mesne. Measurement circuit including differential amplifier and single-ended output. 3,475,691, 10-28-69, Cl. 330-30.
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Zorn, Hermann; Schindlbauer, Helmut; and Hagen, Helmut, said Schindlbauer, and said Hagen, assors to said Zorn. Process for the production of tertiary phosphines. 3,423,468, 1-21-69, Cl. 260-606.5
Zorn, Hermann; and Till, Heinrich, to Alpine Chemische Aktiengesellschaft. Process for the production of 2,5- dihydroxyterephthalic acid. 3,448,145, 6-3-69, Cl. 260-521.
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Zuech, Ernest A., to Phillips Petroleum Company. Isomerization of acyclic triene compounds. 3,441,629, 4-29-69, Cl. 260-683.2
Zuech, Ernest A., to Phillips Petroleum Company. Dimerization of olefins. 3,485,881, 12-23-69, Cl. 260-666.
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Zuercher, Warren H., to Stetson-Ross Machine Company, Inc. Slowdown means for longitudinal movement to lateral movement. 3,470,998, 10-7-69, Cl. 198-33.
Zuercher, Warren H., to Stetson-Ross Machine Company, Inc. Transfer system overdrop with lumber retarder. 3,486,602, 12-30-69, Cl. 198-30.
Zuerker, Siegfried J., to General Electric Company. Transistor amplifier circuit for piezo- electric phonograph cartridge. 3,446,920, 5-27-69, Cl. 179-100.4
Zugel, Martin J. Intermittent motion device. 3,443,455, 5-13-69, Cl. 74-820.

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Zurawski, Leszek. Measuring instrument for determining the energy of shocks of vibrating machines, especially of jolt- molding machines. 3,470,731, 10-7-69, Cl. 73-11.
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Hall, Walter J., to GAF Corp. Slide projector using a box or circular slide magazine. Re. 26,619, 7–1–69, Cl. 353—117.
Hamilton Cosco, Inc. : *See*—
Sellars, James F., Jr., and King. Re. 26,520.

Hammond, Donald L.: *See*—
Cutler, Leonard S., and Hammond. Re. 26,707.
Han, Bui C.: *See*—
Neumann, Manfred E., and Han. Re. 26,622.
Hansen, Arne C., C. W. Uebelherr, and A. P. Colburn, to Globe-Union Inc. Electronic component and method of manufacture thereof. Re. 26,694, 10–14–69, Cl. 313—325.
Harivel, Jean P. R., to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Sealed alkaline cells and electrolytes therefor. Re. 26,660, 9–9–69, Cl. 136—6.
Harwood, Leopold A., to RCA Corp. Linear frequency modulation system including an oscillating transistor, an internal capacity of which is varied in accordance with a modulating signal. Re. 26,715, 11–18–69, Cl. 332—19.
Haskon, Inc.: *See*—
Austin, Clarence G., Jr., and Garrett. Re. 26,699.
Haug, Edward W. Tool for forming toothed parts. Re. 26,569, 4–29–69, Cl. 72—76.
Hayden, James F., to Eastman Kodak Co. Automatic take-up cartridge. Re. 26,729, 12–2–69, Cl. 242—71.1.
Hayes, Edward J., to Kelsey-Hayes Co. Support means for a sliding caliper type disk brake. Re. 26,746, 12–30–69, Cl. 188—73.
Henderson, Homer I. Drilling bit. Re. 26,669, 9–30–69, Cl. 175—330.
Hermann, Edward C., and J. A. Snyder, to E. I. du Pont de Nemours and Co. *a*-Substituted-1-adamantylmethyl penicillins. Re. 26,705, 11–4–69, Cl. 260—239.1.
Hewlett-Packard Co.: *See*—
Cutler, Leonard S., and Hammond. Re. 26,707.
High, Charles N., and G. R. Howland, to The Bendix Corp. Velocity sensor. Re. 26,621, 7–1–69, Cl. 73—502.
Hitachi, Ltd.: *See*—
Miura, Tanetoshi, and Koshikawa. Re. 26,600.
Noumi, Makoto. Re. 26,664.
Hobart Bros. Co.: *See*—
Blackburn, Alan B. Re. 26,651.
Cary, Howard B. Re. 26,549..
Claussen, Gerard E. Re. 26,611.
Holland, Harvison C. Braking system. Re. 26,643, 8–12–69, Cl. 303—6.
Holliday, Walter T., T. R. Lynch, and W. K. Fooshe, Jr., to Riegel Textile Corp. Diaper with hydrophobic yarns. Re. 26,515, 1–14–69, Cl. 128—284.
Holt, Ronald, to Battle Creek Packaging Machines, Inc. Machine for wrapping articles and loaves of sliced bread in limp film wrapper sheets. Re. 26,689, 10–14–69, Cl. 53—209.
Honeywell Inc.: *See*—
Loveland, Roger S. Re. 26,743.
Newbold, William F. Re. 26,516.
Hopkins, William C. N. Change-speed mechanism. Re. 26,608, 6–17–69, Cl. 180—33.
Houston, Lewis C., to St. Joe Paper Co. Container. Re. 26,557, 3–25–69, Cl. 229—15.
Howland, George R.: *See*—
High, Charles N., and Howland. Re. 26,621.
Huchinson, Elmer R., ½ to E. D. Dudek. Conduit saw. Re. 26,717, 11–18–69, Cl. 30—90.3.
Hughes Aircraft Co.: *See*—
Rosen, Harold A. Re. 26,680.
Hultgren, Arnold P., to Amerline Corp. Plastic reel with aluminum insert hub. Re. 26,556, 3–25–69, Cl. 242—71.8.
Hults, Harold W., to Cutler-Hammer, Inc. Positive action switches with improved sliding contact supporting rail structure. Re. 26,636, 7–29–69, Cl. 200—16.
Hupp Corp.: *See*—
Jobes, Harry W. Re. 26,596.
Ideal Industries, Inc.: *See*—
Kelly, Albert A. Re. 26,687.
Ilg, John C., to Elliot Laboratories, Inc. Disposable plastic bag. Re. 26,674, 9–30–69, Cl. 150—2.1.
Inoue, Kiyoshi. Ion control system for electrochemical machining. Re. 26,620, 7–1–67, Cl. 204—224.
Instrumentation Specialties Co.: *See*—
Allington, Robert W. Re. 26,638.
International Harvester Co.: *See*—
Kampert, Keith W., and Zimmerman. Re. 26,635.
Jensen, Erik H., to Westinghouse Electric Corp. Air conditioning systems with reheat coils. Re. 26,695, 10–14–69, Cl. 62—173.
Jensen, Warren R.: *See*—
Batchelor, Clyde S., and Jensen. Re. 26,634.
Jobes, Harry W., to Hupp Corp. Heat pump controls. Re. 26,596, 6–3–69, Cl. 165—12.
Johns-Manville Corp.: *See*—
Finger, Joseph S. Re. 26,652.
Vander Linden, Carl R., and Riede. Re. 26,709.
Jorgensen, George N., H. L. Stanback, and R. W. Dunham, to Square D Co. Electrical panelboard. Re. 26,737, 12–9–69, Cl. 317—119.
Kalns, Ilmars, to Formsprag Co. Bi-directional no-back drive device. Re. 26,540, 3–11–69, Cl. 192—8.
Kamborian, Jacob S.: *See*—
Baker, Alan G., and Kamborian. Re. 26,559.
Kamborian, Jacob S. Method of lasting a shoe. Re. 26,700, 10–28–69, Cl. 12—145.
Kamborian, Jacob S., W. A. Vorn Berger, and J. H. Arsenault; said Arsenault and said Vorn Berger assors. to said Kamborian. Pulling over and lasting of shoes. Re. 26,738, 12–23–69, Cl. 12—145.
Kampert, Keith W., and R. F. Zimmerman, to International Harvester Co. Articulated four-wheel drive earthworking vehicle. Re. 26,635, 7–29–69, Cl. 214—132.
Kanner, Irving: *See*—
Abbott, Samuel. Re. 26,631.
Karper, Paul W.: *See*—
Beatty, James R., Karper, and Juve. Re. 26,562.
Kay, Sydney, deceased (by S. P. Kay, executor), to Cooper Roller Bearings Co. Ltd. Split roller bearings. Re. 26,591, 5–27–69, Cl. 308—236.
Kay, Sydney P.: *See*—
Kay, Sydney. Re. 26,591.
Kelley, Leon O. Tractor mounted cable laying device. Re. 26,718, 11–18–69, Cl. 61—72.6.
Kelly, Albert A., to Ideal Industries, Inc. Wire stripper with reversed collet and blade. Re. 26,687, 10–7–69, Cl. 29—427.
Kelsey-Hayes Co.: *See*—
Hayes, Edward J. Re. 26,746.
Kimberly-Clark Corp.: *See*—
Dwyer, Richard J., Jr. Re. 26,663.
King, Reynold C.: *See*—
Sellars, James F., Jr., and King. Re. 26,520.
Kiper, Gerd, to Agfa Aktiengesellschaft. Light controlled shutter. Re. 26,681, 10–7–69, Cl. 95—10.
Klass, Donald L., R. M. Haines, R. B. McEuen, and T. W. Martinek, to Union Oil Co. of California. Electrokinetic weighing apparatus. Re. 26,586, 5–27–69, Cl. 177—1.
Kloostra, Marvin L.: *See*—
Averill, Eugene F., and Kloostra. Re. 26,723.
Knize, Elmer J., ½ to D. C. Avers. Can container and the lid therefor. Re. 26,730, 12–2–69, Cl. 220—42.
Knolle, Ernst G. Articulated train systems. Re. 26,673, 9–30–69, Cl. 104—20.
Kochetkov, Vladimir D.: *See*—
Fanin, Alexey J., and Kochetkov. Re. 26,683.
Koehring Co.: *See*—
Tennis, Francis H. Re. 26,523.
Komarnitsky, Rostislaw S., to North American Rockwell Corp. Method of making taper leaf springs. Re. 26,714, 11–18–69, Cl. 29—173.
Koshikawa, Tsuneji: *See*—
Miura, Tanetoshi, and Koshikawa. Re. 26,600.
Kossoy, Michael W.: *See*—
Poarch, Arthur E., and Kossoy. Re. 26,561.
Kuipers, Tietso: *See*—
Antema, Geert, Kuipers, and Mulderink. Re. 26,613
Kurt, Howard D., and H. R. Gould, to General Electric Co. Busway distribution system for supplying a plurality of electric discharge devices through ballast devices. Re. 26,576, 4–29–69, Cl. 315—177.
Laskow, Frederick H. Gift wrapping. Re. 26,742, 12–23–69, Cl. 229—87.
Lauer, Rodney F., to Westinghouse Electric Corp. Air conditioning system including reheat coils. Re. 26,593, 5–27–69, Cl. 62—160.
Layton, Jack D., to Layton Mfg. Co. Mechanism for attaching trailing and lead vehicles. Re. 26,566, 4–29–69, Cl. 280—460.
Layton Mfg. Co.: *See*—
Layton, Jack D. Re. 26,566.
Lear Siegler, Inc.: *See*—
Daleo, Frank G. Re. 26,696.
Volk, Sidney. Re. 26,575.
Lee, Winston F. Z., H. W. Fisher, and R. L. Crumley, to Rockwell Mfg. Co. Fluid meters. Re. 26,654, 8–26–69, Cl. 73—229.
Lemelson, Jerome H. Composite filaments. Re. 26,688, 10–14–69, Cl. 15—209.
Lewis, Karl R. Revolver type firearm with cylinder crane. Re. 26,534, 3–4–69, Cl. 42—62.
Libman, Max L.: *See*—
Rabinow, Jacob. Re. 26,527.
Lichtenberger, Horst W., and P. E. Loveday, to Union Carbide Corp. Method and apparatus for dispensing varporizable liquids. Re. 26,529, 3–4–69, Cl. 141—5.
Limiero, Albert D., J. R. McEowen, and J. A. Spencer, to Bell Telephone Laboratories, Inc. Key telephone control systems. Re. 26,722, 11–25–69, Cl. 179—99.
Lockheed Aircraft Corp.: *See*—
Stucki, Frank F. Re. 26,739.
Vaughn, Robeert L. Re. 26,637.
Loveday, Paul E.: *See*—
Lichtenberger, Horst W., and Loveday. Re. 26,529.
Loveland, Roger S., to Honeywell Inc. Thermocouple supporting means. Re. 26,743, 12–23–69, Cl. 136—217.
Loveland, Winton, and S. Warshaw, to The Loveshaw Corp. Carton clamping and guiding means in an automatic carton closing machine. Re. 26,650, 8–26–69, Cl. 53—75.
Loveshaw Corp., The: *See*—
Loveland, Winton, and Warshaw. Re. 26,650.
Lynch, Thomas R.: *See*—
Holliday, Walter T., Lynch, and Fooshe. Re. 26,515.
Marateck, Harold: *See*—
Marateck, Jack M. and H. Re. 26,666.
Marateck, Jack M. and H. Fixture with drawers. Re. 26,666, 9–9–69, Cl. 312—343.
Marcovitch, Isaac and J.; said I. Marcovitch, assor. to said J. Marcovitch. Machine for roll-forming an annular workpiece including a separate rotatable core. Re. 26,594, 5–27–69, Cl. 72—80.
Marcovitch, Jacob: *See*—
Marcovitch, Isaac and J. Re. 26,594.
Marine Geophysical Services Corp.: *See*—
Schempf, Edward G. Re. 26,748.

Martinek, Thomas W.: *See*—
Klass, Donald L., Haines, McEuen, and Martinek. Re. 26,586.
Maskell, Richard N.: *See*—
Cummings, Jan G., and Maskell. Re. 26,592.
Mason, Thomas F., to Potatomaster Corp. Potato peeling and cutting machine. Re. 26,684, 10–7–69. Cl. 146—37.
Mast-Foos Mfg. Co., Inc.: *See*—
Musgrave, Orly. Re. 26,633.
Mau, William L., and E. A. Nagy, to The National Rolled Thread Die Co. Thread and other form rolling dies. Re. 26,518, 1–14–69, Cl. 72—71.
Mazzanti, Giorgio: *See*—
Natta, Giulio, Pino, and Mazzanti. Re. 26,517.
McCarthy, John J., to Norco Inc. Releasable mechanical coupling. Re. 26,703, 11–4–69, Cl. 24—230.
McCoy, Thomas A., to Carando Machine Works. Welding unit for lap-welding machines. Re. 26,658, 9–9–69, Cl. 219—64.
McDonnell Douglas Corp.: *See*—
Banas, Henry C. Re. 26,711.
McEowen, James R.: *See*—
Limiero, Albert D., McEowen, and Spencer. Re. 26,722.
McEuen, Robert B.: *See*—
Klass, Donald L., Haines, McEuen, and Martinek. Re. 26,586.
McVannel, Donald L., to Dow Corning Corp. Organosilicon polymerizing catalyst. Re. 26,697, 10–28–69, Cl. 260—465.
Melahn, E. M.: *See*—
Guzzardo, Raymond W. Re. 26,656.
Mellott, Hayes R.: *See*—
Mellott, John S. and H. R. Re. 26,535.
Mellott, John S. and H. R. Live deck and loader assembly. Re. 26,535, 3–4–69, Cl. 214—91.
Meredith, Diven. Mass transfer unit using spaced flexible materials, and method of construction. Re. 26,560, 4–15–69, Cl. 261—30.
Merit Products, Inc.: *See*—
Block, Aleck, and Purcell. Re. 26,552.
Micko, Oswald: *See*—
Allgaier, Oskar, and Micko. Re. 26,555.
Milionis, Jerry P.: *See*—
Rodgers, John L., and Milionis. Re. 26,565.
Millard, Phillip V., to Automotive Rubber Co., Inc. Method of making sealing members. Re. 26,740, 12–23–69, Cl. 264—274.
Miller, Leo: *See*—
Bender, Louis. Re. 26,642.
Ministry of Defense, The State of Israel: *See*—
Popper, Jakhin B. Re. 26,542.
Minnesota Mining and Mfg. Co.: *See*—
Sorensen, David P., and Shepard. Re. 26,719.
Mirtain, Henri, and A. Devienne, to Uniroyal-Englebert France. Asymmetric pneumatic tires. Re. 26,713, 11–18–69, Cl. 152—353.
Miura, Tanetoshi, and T. Koshikawa, to Hitachi, Ltd. Apparatus for observing vocal cord wave. Re. 26,600, 6–3–69, Cl. 128—2.
Mole, Cecil J., to Westinghouse Electric Corp. Thermoelectric apparatus. Re. 26,612, 6–24–69, Cl. 62—3.
Mole, Cecil J., and W. M. Wepfer, to Westinghouse Electric Corp. Thermoelectric apparatus. Re. 26,698, 10–28–69, Cl. 62—3.
Mole, Cecil J., and W. M. Wepfer, to Westinghouse Electric Corp. Thermoelectric heat pumping apparatus. Re. 26,728, 12–2–69, Cl. 62—3.
Montecatini Edison S.p.A.: *See*—
Natta, Giulio, Pino, and Mazzanti. Re. 26,517.
Moore, Francis J., to Schlage Lock Co. Simplified construction for door latch operating mechanism. Re. 26,564, 4–15–69, Cl. 292—167.
Moore, Ray, Jr.: *See*—
Fitzpatrick, Richard T., and Moore. Re. 26,657.
Fitzpatrick, Richard T., and Moore. Re. 26,661.
Mudd, Frank X., Jr., to Curtis 1000, Inc. Mailing envelopes. Re. 26,532, 3–4–69, Cl. 282—25.
Murov, Issac I., M. J. Schloss, and F. V. Panno. Oral treatment appliance. Re. 26,589, 5–27–69, Cl. 15—22.
Musgrave, Orly, to Mast-Foos Mfg. Co., Inc. Multi-speed transmission. Re. 26,633, 7–29–69, Cl. 74—375.
Myers, Robert R. Swimming pool cleaning means. Re. 26,741, 12–23–69, Cl. 15—1.7.
Nagy, Ernest A.: *See*—
Mau, William L., and Nagy. Re. 26,518.
National Aeronautics and Space Administration: *See*—
Thomas, Numa E. Re. 26,548.
National Cash Register Co., The: *See*—
Bloom, Leon, Cohen, and Porter. Re. 26,624.
National Rolled Thread Die Co., The: *See*—
Mau, William L., and Nagy. Re. 26,518.
Natta, Giulio, P. Pino, and G. Mazzanti, to Montecatini Edison S.p.A. Process for polymerizing certain unsaturated hydrocarbons in the vapor phase and in contact with a stereospecific catalyst. Re. 26,517, 1–14–69, Cl. 260—93.7.
Naumann, Fritz, to Daimler-Benz Aktiengesellschaft. Bearing structure. Re. 26,578, 5–13–69, Cl. 74—801.
Nazareth, Alfred, Jr., to The Foxboro Co. Industrial process control apparatus. Re. 26,573, 4–29–69, Cl. 330—10.
Nealis, Raymond N. Plastic zipper. Re. 26,629, 7–15–69, Cl. 24—205.12.
Neely, Samuel M. Floodlighting of athletic fields. Re. 26,588, 5–27–69, Cl. 240—3.
Neumann, Manfred E., and B. C. Han, to Allis-Chalmers Mfg. Co. Synchronous motor control circuit. Re. 26,622, 7–1–69, Cl. 318—176.
Newbold, William F., to Honeywell Inc. Electronic controller. Re. 26,516, 1–14–69, Cl. 323—22.
Nolin, Roger J.: *See*—
Russell, Fred J., and Nolin. Re. 26,677.
Norco Inc.: *See*—
McCarthy, John J. Re. 26,703.
North American Rockwell Corp.: *See*—
Komarnitsky, Rostislaw S. Re. 26,714.
Northern Illinois Machine Co.: *See*—
Guzzardo, Raymond W. Re. 26,656.
Norton, Roy, to The Wear-Flex Corp. Fabric load lifting sling. Re. 26,704, 11–4–69, Cl. 294—74.
Norwood, Donald W. Photoelectric device for comparing different light intensities characteristic of a photographic scene. Re. 26,632, 7–22–69, Cl. 356—222.
Noumi, Makoto, to Hitachi, Ltd. Brushless motors wherein commutation is controlled by an impedance responsive to rotor movement. Re. 26,664, 9–9–69, Cl. 318—138.
Nutting, Robert G., R. C. Wagner, and K. K. Christensen, to Bartelt Engineering Co., Inc. Packaging machine. Re. 26,553, 3–25–69, Cl. 53—180.
O'Brien Mfg. Corp.: *See*—
Siegal, Burton L. Re. 26,659.
Oglebay Norton Co.: *See*—
Fetzer, Wallace G. Re. 26,598.
O'Hara, Arthur C., to Carrier Corp. Air conditioning units. Re. 26,679, 10–7–69, Cl. 165—123.
Ohio Brass Co., The: *See*—
Taylor, John J. Re. 26,602.
Olivetti, Ing. C., & C., S.p.A.: *See*—
Perotto, Pier G. Re. 26,744.
PPG Industries, Inc.: *See*—
Forbes, Sydney. Re. 26,547.
Forbes, Sydney. Re. 26,644.
Paltier Corp., The: *See*—
Skubic, Leroy F. Re. 26,618.
Panno, Francis V.: *See*—
Murov, Isaac I., Schloss, and Panno. Re. 26,589.
Paquin, Roger L., to Glacier Ware, Inc. Refrigerated tumbler. Re. 26,724, 11–25–69, Cl. 62—457.
Park, Donald M., by The Seeburg Corp. Automatic repetitive rhythm instrument timing circuitry. Re. 26,521, 2–11–69, Cl. 84—1.03.
Park, Robert H., to Fast Load Control, Inc. Means for maintaining stability of power transmission systems. Re. 26,571, 4–29–69, Cl. 307—86.
Peaslee, Lawrence R., to General Electric Co. Variable speed constant frequency system. Re. 26,630, 7–15–69, Cl. 321—69.
Pennsalt Chemicals Corp.: *See*—
Carroll, James W., and Smith. Re. 26,609.
Perotto, Pier G., to Ing. C. Olivetti & C., S.p.A. Method and apparatus for reading characters. Re. 26,744, 12–23–69, Cl. 340—146.3.
Petrow, Vladimir, A. J. Thomas, and O. Stephenson, to The British Drug Houses Ltd. Compound of betaine and chloral and method for preparing same. Re. 26,590, 5–27–69, Cl. 260—501.13.
Pino, Piero: *See*—
Natta, Giulio, Pino, and Mazzanti. Re. 26,517.
Poarch, Arthur E., and M. W. Kossoy, to Western Dairy Products Inc. Method of making meat curing salt compositions. Re. 26,561, 4–15–69, Cl. 99—222.
Polaroid Corp.: *See*—
Burgarella, John P., and Topaz. Re. 26,627.
Wareham, Richard R. Re. 26,595.
Popper, Jakhin B., to Ministry of Defense, The State of Israel. Device for limiting the speed of rotation of a body. Re. 26,542, 3–11–69, Cl. 188—185.
Porter, Sigmund N.: *See*—
Bloom, Leon, Cohen, and Porter. Re. 26,624.
Potatomaster Corp.: *See*—
Mason, Thomas F. Re. 26,684.
Powell, Fred H., to Reynolds Metals Co. Metal rolling system. Re. 26,665, 9–9–69, Cl. 18—2.
Powers, John M.: *See*—
Waddell, Mathis T., Powers, and Saunders. Re. 26,579.
Purcell, Joseph W.: *See*—
Block, Aleck, and Purcell. Re. 26,552.
Quadramics, Inc.: *See*—
Rasmussen, Reed. Re. 26,546.
RCA Corp.: *See*—
Harwood, Leopold A. Re. 26,715.
Stark, John, Jr. Re. 26,686.
Rabinow, Jacob, 10% to M. L. Libman. Machine tools. Re. 26,527, 2–11–69, Cl. 116—115.5.
Rasmussen, Reed, to Quadramics, Inc. Loading and unloading winch system for traction vehicles. Re. 26,546, 3–25–69, Cl. 214—517.
Reader, Trevor D.: *See*—
Cargill, Norman A., and Reader. Re. 26,605.
Reddick, John A., to Clayton Anderson & Co. Linter cleaner. Re. 26,649, 8–26–69, Cl. 19—202.
Remmers, Edward G., G. M. Sieger, and W. C. Barringer, to American Cyanamid Co. Stable aqueous glycol solution of tetracycline aluminum calcium gluconate complex having a pH about 7.5 to 9. Re. 26,541, 3–11–69, Cl. 424—227.
Reynolds Metals Co.: *See*—
Powell, Fred H. Re. 26,665.
Whitaker, William C., and Thomas. Re. 26,712.

Rhodes, M. H., Inc. : *See*—
Draghi, James A. Re. 26,747.
Richards, Norman D., to U.S. Philips Corp. Superconductive storage circuits. Re. 26,702, 11–4–69, Cl. 340—173.1.
Riede, Raymond G. : *See*—
Vander Linden, Carl R., and Riede. Re. 26,709.
Riegel Textile Corp. : *See*—
Holliday. Walter T., Lynch, and Fooshe. Re. 26,515.
Robinson, Peter M., to The Dunlop Co. Ltd. Belting. Re. 26,731, 12–2–69, Cl. 161—57.
Rockwell Mfg. Co. : *See*—
Lee, Winston F. Z., Fisher, and Crumley. Re. 26,654.
Rockwell, Ronald J., to Avco Broadcasting Corp. Amplifier of the transformer-output type with regenerative feedback network for reducing low frequency distortion. Re. 26,567, 4–29–69, Cl. 330—82.
Rodgers, John L., and J. P. Millonis, to American Cyanamid Co. 2-ortho-hydroxy-phenyl-4-(3H)-quinazolinones. Re. 26,-565, 4–29–69, Cl. 260—251.
Roger, Raymond W. : *See*—
Wilson, Robert G., and Roger. Re. 26,672.
Rogers, Walter C., Jr., to General Steel Products, Inc. Sofa bed. Re. 26,671, 9–30–69, Cl. 5—13.
Romanos, Nicholas D., to Combustion Engineering, Inc. Fluid operated steam generator having steam operated feedwater preheater. Re. 26,526, 2–11–69, Cl. 122—34.
Ronci, Fernando M., to American Can Co. Pull tab can opener. Re. 26,524, 2–11–69, Cl. 220—53.
Rosen, Harold A., to Hughes Aircraft Co. Apparatus providing a rotating directive antenna field pattern associated with a spinning body. Re. 26,680, 10–7–69, Cl. 343—100.
Rotary Pen Corp. : *See*—
Von Arx, Marcel J. Re. 26,583.
Ruehlemann, Herbert E., to Elco Corp. Contact for direct reception of printed circuit board. Re. 26,692, 10–14–69, Cl. 339—176.
Russell, Fred J., and R. J. Nolin; said Nolin, assor. to said Russell. Mortise lock deadlocking latch and deadbolt block. Re. 26,677, 10–7–69, Cl. 292—34.
Russell, Willard T. : *See*—
Besson, Clement T., Jr. Re. 26543.
SCM Corp. : *See*—
Gibbons, Ambrose J., Jr., and Demarco. Re. 26,639.
St. Joe Paper Co. : *See*—
Houston, Lewis C. Re. 26,557.
Sarbo, Edgar G., to Wayne-Gossard Corp. Foot cover and method of manufacturing the same. Re. 26,667, 9–23–68, Cl. 66—171.
Sardee Corp., The : *See*—
Sarovich, Steve. Re. 26,568.
Sarovich, Steve, to The Sardee Corp. Upward magnetic can conveyor. Re. 26,568, 4–29–69, Cl. 198—41.
Saunders, Rhoderick K. : *See*—
Waddell, Mathis T., Powers, and Saunders. Re. 26,579.
Schach, Albert W., to Barber-Colman Co. Static pressure regulator for air flow controllers. Re. 26,690, 10–14–69, Cl. 137—489.
Schempf, Edward G., to Marine Geophysical Services Corp. Mechanical imploder and method for generating under water seismic signals. Re. 26,748, 12–30–69, Cl. 181—.5.
Schering Corp. : *See*—
Sherlock, Margaret H., and Sperber. Re. 26,655.
Schlage Lock Co. : *See*—
Moore, Francis J. Re. 26,564.
Schloss, Morton J. : *See*—
Murov, Isaac I., Schloss, and Panno. Re. 26,589.
Schlumberger Technology Corp. : *See*—
Tompkins, David R. Re. 26,537.
Schmidt, Robert J. : *See*—
Ferm, Richard L., and Schmidt. Re. 26,675.
Schmit, Roger A., to Teletype Corp. Code transmitter-distributor with [mechanical] means for varying duration of stop pulse. Re. 26,577, 4–29–69, Cl. 178—53.1.
Schweizer, Gottfried : *See*—
Smolka, Thomas G., and Schweizer. Re. 26,670.
Scott & Williams, Inc. : *See*—
Currier, John A. Re. 26,580.
Currier, John A. Re. 26,581.
Seeburg Corp., The : *See*—
Park, Donald M. Re. 26,521.
Seggos Industries, Inc. : *See*—
De Koster, Heinz A. Re. 26,610.
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Ave, Nagao, to Nittan Co., Ltd. Fire detector or the like. 215,040, 8–19–69, Cl. D72—1.

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Averitte, William H. Grinding and polishing device. 214,805, 7–29–69, Cl. D37—1.

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Baker, Berkley J., and F. La Haye, to Teledyne, Inc. Service pin. 215,606, 10–14–69 Cl. D29—2.

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Ball, Stanley, to Cannon Mills Co. Textile fabric. 215,784, 10–28–69, Cl. D92—1.

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Ball, Stanley, to Cannon Mills Co. Towel or similar article. 215,796, 10–28–69, Cl. D92—26.

Balleis, Peter. Toy spinning top. 214,802, 7–29–69, Cl. D34—15.

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Bardeau, William M. Beverage brewing and dispensing unit. 216,356, 12–16–69, Cl. D94—3.

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Barecki, Chester J., to American Seating Co. Driver's seat for a commercial vehicle. 213,685, 4–1–69, Cl. D15—8.

Barecki, Chester J., to American Seating Co. Vehicle seat. 214,244, 5–20–69, Cl. D15—8.

Barecki, Chester J., to American Seating Co. Tape recorder cabinet. 215,944, 11–11–69, Cl. D33—19.

Bargetzi, Fred H., H. T. Heinlein, and C. L. Loesch, to Sperry Rand Corp. Radome. 214,629, 7–8–69, Cl. D26—14.

Barghout, Alexander S. Bar stool. 213,684, 4–1–69. Cl. D15—8.

Barghout, Alexander S. Trestle table. 213,704, 4–1–69, Cl. D33—14.

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Barnes, Raymond C., to American Desk Mfg. Co. Combined table and dual desk unit. 215,011, 8–19–69, Cl. D33—7.

Barnes, Raymond C., to American Desk Mfg. Co. Typewriter desk. 215,308, 9–23–69, Cl. D33—7.

Barnes, Raymond C., to American Desk Mfg. Co. Study carrel. 215,309, 9–23–69, Cl. D33—11.

Barnett, Burton, F. Raymes, and T. A. Sackinger, to North America Rockwell Corp. Aerospace vehicle or similar article. 213,146, 1–7–69, Cl. D71—1.

Barnett, Morris, to D. B. Webb. Vacuum pump. 214,293, 5–27–69, Cl. D65—1.

Barrett, Hoke S. Holder for trash receptacle. 214,849, 8–5–69, Cl. D49—30.

Barris, George, to Stelber Cycle Corp. Bicycle seat. 213,538, 3–11–69. Cl. D90—16.

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Barroero, Louis F. Front door panel for a refrigerated display cabinet. 215,677, 10–21–69, Cl. D67—3.

Barroero, Louis F. Corner refrigerator cabinet. 216,226, 12–2–69, Cl. D67—3.

Baron, William J., to Thermal Engineering & Design Co. Space heater. 213,694, 4–1–69, Cl. D23—122.

Bartholomew, Robert P., to Steelcase, Inc. Chair. 214,315, 6–3–69, Cl. D15—1.

Bartholomew, Robert P., to Steelcase, Inc. Combined hat and coat hook. 214,891, 8–12–69, Cl. D15—8.

Bartlett, Eric C., to The Dunlop Co. Ltd. Tire. 214,411, 6–10–69, Cl. D90—20.

Barton, Grahame J., to The Dunlop Co. Ltd. Tire. 213,658, 3–25–69, Cl. D90—20.

Barton, Raymond W., and G. A. Claybaugh, to Mead Johnson & Co. Nurser nipple. 215,253, 9–16–69, Cl. D83—8.

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Bogan, Robert T., Jr. Grille. 215,586, 10–14–69, Cl. D13—1.
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Carlson, Christopher C. Marine hatch. 215,624, 10–14–69, Cl. D71—1.
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Carnahan, John T., to O & R Engines, Inc. Chain saw. 214,777, 7–29–69, Cl. D8—65.
Carpenter, Herbert R., to Andis Clipper Co. Stand for a self-charging hair clipper. 215,303, 9–23–69, Cl. D26—15.
Carpenter, Herbert R., to Andis Clipper Co. Hair clipper. 215,683, 10–21–69, Cl. D95—3.
Carpenter, Joseph D., and F. E. Golding, to Aeon Industries, Inc. d.b.a. Pride Products Co. Baby walker. 213,550, 3–18–69, Cl. D15—1.
Carpenter, Lindell O., and R. M. Ferguson, to Container Corp. of America. Goggles. 214,258, 5–27–69, Cl. D2—234.
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Casorati, Pierre L., to Le Phare S.A. Expandable watchband. 213,462, 3–4–69, Cl. D45—4.
Cassady, Samuel G., to J. A. Chambliss. Mower drum. 213,712, 4–1–69, Cl. D40—4.
Castellano, Angelo. Combined eyeglasses and flashlights therefor. 215,751, 10–28–69, Cl. D48—24.
Castloo, Thomas F. Boat paddle. 213,472, 3–4–69, Cl. D71—1.
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Cavenah, David K. Hydrotherapy pool. 213,534, 3–11–69, Cl. D83—1.
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Chandler, Wesley M., and B. T. Juba, to Wilbert, Inc. Cremation urn. 213,777, 4–8–69, Cl. D19—1.
Chandler, Wesley M., and B. T. Juba, to Wilbert, Inc. Cremation urn. 214,894, 8–12–69, Cl. D19—1.
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Channell, William H. Grade level housing for telephone, television, signal and electric power cables. 214,910, 8–12–69, Cl. D26—5.
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Chapin, Richard M., to C. B. Atkin Co. Furniture door pediment or the like. 215,856, 11–4–69, Cl. D33—1.
Chapin, Richard M., to C. B. Atkin Co. Mirror or the like. 216,132, 11–25–69, Cl. D33—9.
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Cheslock, Edward P., to E. W. Bliss Co. Portable light. 214,254, 5–20–69, Cl. D48—24.
Chew, Reine. Collapsible saw horse leg. 213,399, 2–25–69, Cl. D54—1.
Chi, Yiu D., to Forda Manufacturing Co., Ltd. Vacuum cleaner for an automobile. 214,084, 5–6–69. Cl. D49—13.
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Chriss, Stephen. Load cell for measuring loads on structural members. 215,069, 8–26–69, Cl. D52—6.
Christensen, John R. Calendar or the like. 213,598, 3–18–69, Cl. D74—5.
Christensen, John R. Lidded beer mug. 214,639, 7–8–69, Cl. D44—9.
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Chuboff, David P., and J. P. Stevens, to Zenith Radio Corp. Cardiac pacing unit. 216,381, 12–23–69, Cl. D83—1.
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Cohen, Milton H., 15% to R. E. Herz, 15% to H. W. McCray, 15% to S. Prince, and 5% to A. C. Brown. Airport terminal. 214,366, 6–10–69, Cl. D13—1.
Cohen, Morris. Seat cushion. 213,551, 3–18–69, Cl. D15—8.
Cohen, Nathan. Flying toy. 216,319, 12–16–69, Cl. D34—15.
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Cohn, Irwin. Climbing rope. 214,570, 7–1–69, Cl. D34—5.
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Cohn, Irwin. Riding toy. 215,224, 9–16–69, Cl. D34—15.
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Cooper, Myron G., K. E. Grandon, Jr., and R. M. Vondell, to Kellogg Co. Snack food product or the like. 213,942, 4–29–69, Cl. D1—1.
Cooper, Myron G., K. E. Grandon, Jr., and R. M. Vondell, to Kellogg Co. Snack food product or the like. 213,943, 4–29–69, Cl. D1—1.
Cooper, Myron G., K. E. Grandon, Jr., and R. M. Vondell, to Kellogg Co. Snack food product or the like. 213,944, 4–29–69, Cl. D1—1.
Cooper, Myron G., K. E. Grandon, Jr., R. M. Vondell, and D. C. Ellis, to Kellogg Co. Snack food product or the like. 213,945, 4–29–69, Cl. D1—1.
Cooper, Myron G., K. E. Grandon, Jr., R. M. Vondell, and D. C. Ellis, to Kellogg Co. Snack food product or the like. 213,946, 4–29–69, Cl. D1—2.
Cooper, Myron G., and R. M. Vondell, to Kellogg Co. Snack food product or the like. 214,659, 7–15–69, Cl. D1—13.
Cooper, Myron G., and R. M. Vondell, to Kellogg Co. Snack food product. 215,260, 9–23–69, Cl. D1—1.
Cooper, Myron G., and K. E. Grandon, Jr., to Kellogg Co. Snack food product or the like. 215,261, 9–23–69, Cl. D1—7.
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Cornish, Judson E. Carrell for student instruction. 216,026, 11–18–69, Cl. D33—11.
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Cottier, Seton, and J. J. Natoli, to International Business Machines Corp. Data inscriber or the like. 213,562, 3–18–69, Cl. D26—5.
Coulter, John. Sailboat. 213,471, 3–4–69, Cl. D71—1.
Court, Arthur E. Support stand for displaying ornaments. 214,798, 7–29–69, Cl. D33—3.
Court, Arthur E. Support stand for displaying ornaments. 214,799, 7–29–69, Cl. D33—17.
Cowan, Edwin J. Portable broiler. 213,600, 3–18–69, Cl. D81—10.
Cowan, Murray L., and J. M. Grear, to Textron Inc. Bottle or similar article. 213,541, 3–18–69, Cl. D9—76.
Cox, Clair E., F. Hinman, Jr., and A. Harautuneian, to Pharmaseal Division of American Hospital Supply Corp. Guide mechanism for a medical catheter. 215,387, 9–23–69, Cl. D83—12.
Cox, Richard S., to Sylvania Electric Products Inc. Tape recorder cartridge player or the like. 213,373, 2–25–69, Cl. D26—14.
Cox, Richard S., to Sylvania Electric Products Inc. Tape recorder cartridge player or the like. 213,374, 2–25–69, Cl. D26—14.
Cox, Walter T., to Theodore Borgman Co. Reflector light housing. 216,151, 11–25–69, Cl. D48—32.
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Crawford, Ralph W., to Fisher-Price Toys, Inc. Toy camera. 214,328, 6–3–69, Cl. D34—15.
Crawford, Ralph W., to Fisher-Price Toys Inc. Toy camera. 214,929, 8–12–69, Cl. D34—15.
Crease, Pierre L., to The National Cash Register Co. Combined record material rewind unit and adding machine or similar article. 216,340, 12–16–69, Cl. D64—11.
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Solo, Alan J. 214,061.
Crestin-Billet, Bernard. Pair of sunglasses. 214,531, 6–24–69, Cl. D57—1.
Cretin, Theodore D., to National Services Industries, Inc. Chair. 216,113, 11–25–69, Cl. D15—1.
Cretin, Theodore D., to National Services Industries, Inc. Chair. 216,114, 11–25–69, Cl. D15—1.
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Slagell, Lloyd D. 214,490.
Crist, Buckley, to Jaclo, Inc. Combined aerator and drinking fountain attachment for faucets and the like. 213,876, 4–22–69, Cl. D23—35.
Criswell, John H., to Air Traffic Control System, Inc. Mobile air traffic control tower. 213,181, 1–14–69, Cl. D14—3.
Critcher, John L., to AAI Corp. Pistol. 214,496, 6–24–69, Cl. D22—1.
Croci, Giovanni, to Lincoln Italiana Industria Ettromecanica S.r.l. Floor suction polisher. 215,611, 10–14–69, Cl. D37—3.
Cronheim, Richard B. Compartmented food warming insert for a saucepan or the like. 213,387, 2–25–69, Cl. D44—1.
Cronheim, Richard B. Combined coaster and ash tray. 215,114, 9–2–69, Cl. D44—10.
Cronheim, Richard B. Sampling spoon. 215,871, 11–4–69, Cl. D44—29.
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Curran, Frank J. Ash tray. 214,708, 7–15–69, Cl. D85—2.
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Curriston, Loren E., and H. Fornoff, to North American Rockwell Corp. Maneuvering space vehicle or similar article. 213,733, 4–1–69, Cl. D71—1.
Curriston, Loren E., and H. Fornoff, to North American Rockwell Corp. Maneuvering space vehicle or similar article. 213,734, 4–1–69, Cl. D71—1.
Curtin, Kenneth M., F. E. Kern, R. J. White, and W. G. Baechle, to Evansville Association for the Blind, Inc. Wick holder for evaporative deodorizers or the like. 215,846, 11–4–69, Cl. D23—150.
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Curtis, Reid H., to The Perkin Elmer Corp. Low temperature R-F reactor plasma tube. 214,788, 7–29–69, Cl. D16—2.
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Cvengros, David V., to The Goodyear Tire & Rubber Co. Tire. 215,573, 10–7–69, Cl. D90—20.
Cvengros, David V., and P. S. Hammond, to The Goodyear Tire & Rubber Co. Tire. 216,354, 12–16–69, Cl. D90—20.
Czapar, William A., and R. P. Suggs. Hook fastener. 214,825, 8–5–69, Cl. D2—418.

Czapla, Wolfgang, to Rotaprint Aktiengesellschaft. Combined offset printing and duplicating machine. 213,527, 3–11–69, Cl. D64—11.
Daenen, Robert, to Dart Industries Inc. Butter tray or the like. 215,958, 11–11–69, Cl. D44—5.
Daenen, Robert, to Dart Industries Inc. Butter dish or the like. 216,214, 12–2–69, Cl. D44—5.
D'Agostino, Vincent F., and P. Brieff, to RAI Research Corp. Gunnery target. 214,896, 8–12–69, Cl. D22—15.
Daher, Theodore G., to General Electric Co. Heater housing for hair curlers or similar article. 215,258, 9–16–69, Cl. D86—10.
Daher, Theodore G., and W. V. Judson, to General Electric Co. Clock. 214,179, 5–20–69, Cl. D42—7.
Daher, Theodore G., and W. V. Judson, to General Electric Co. Clock or similar article. 214,637, 7–8–69, Cl. D42—7.
Daher, Theodore G., and W. V. Judson, to General Electric Co. Clock or similar article. 216,212, 12–2–69, Cl. D42—7.
Dahlman, William J., and L. F. Budds, to North American Rockwell Corp. Plasma welding torch. 214,445, 6–17–69, Cl. D26—1.
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Daito, Hiroshi, to Blackwell Electronics Inc Co., Ltd. Portable retractable lamp. 214,082, 5–6–69, Cl. D48—20.
Dale, Donald J. Child's sleeping bag. 214,232, 5–20–69, Cl. D92—2.
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Damast, David. Handbag lock. 213,811, 4–8–69, Cl. D87—2.
Damast, David. Handbag lock. 213,812, 4–8–69, Cl. D87—2.
Damast, David. Handbag closure clasp. 213,813, 4–8–69, Cl. D87—2.
Damast, David. Handbag closure clasp. 213,814, 4–8–69, Cl D87—2.
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Daniel, Eugene T., to Monogram Models, Inc. Toy car, or similar article. 213,791, 4–8–69, Cl. D34—15.
Daniel, Eugene T., to Safari Enterprises, Inc. Body for motor vehicles or the like. 215,833, 11–4–69, Cl. D14—3.
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Davis, Herman W., to A. Teichert & Son, Inc. Concrete joint shaping tool. 214,985, 8–19–69, Cl. D8—45.
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Davis, Paul. Cup. 213,094, 1–7–69, Cl. D9—220.
Davis, Paul. Cup. 213,174, 1–14–69, Cl. D9—220.
Davis, Paul, to Sweetheart Plastics, Inc. Mold for frozen confection. 213,897, 4–22–69, Cl. D44—1.
Davis, Paul D. Air-cushion vehicle. 215,369, 9–23–69, Cl. D71—1.
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De Balseiro, Emilia C., to Balseiro, Cordoba & Compania (Balco). Molded sandal. 215,402, 9–30–69, Cl. D2—294.
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Debs, Pierre J., to Zarn, Inc. Jug. 215,539, 10–7–69, Cl. D9—40.
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De Flandre, Charles, to Walton-Richardson Co. Bottle or similar article. 213,090, 1–7–69, Cl. D9—100.
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D'Elia, Anthony N., and E. M. Stolarz, to Presto Lock Co., Inc. Luggage handle or similar article. 213,242, 1–14–69, Cl. D87—2.
D'Elia, Anthony N., and E. M. Stolarz, to Reliable Luggage, Inc. Soft side suitcase. 213,744, 4–1–69, Cl. D87—5.
D'Elia, Anthony N., and E. M. Sto.arz, to Reliable Luggage, Inc. Carrying bag or similar article. 213,745, 4–1–69, Cl. D87—5.
D'Elia, Anthony N., and E. M. Stolarz, to Reliable Luggage, Inc. Expandable carrying bag. 213,746, 4–1–69, Cl. D87—5.
D'Elia, Anthony N., and E. M. Stolarz, to Presto Lock Co., Inc. Luggage handle or similar article. 214,299, 5–27–69, Cl. D87—2.
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De Varco, Donald A., to Sunbeam Corp. Charging stand for battery operated appliance. 216,292, 12–16–69, Cl. D4—16.
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Fegan, Richard M., to The Singer Co. Vacuum cleaner housing or similar article. 213,642, 3–25–69, Cl. D49—14.1.
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Galloway, Roy P. Sheet of note paper. 215,890, 11–4–69, Cl. D59—14.
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Gantz, Carroll M., R. H. Hose, and J. T. Sestak, to The Hoover Co. Hair dryer. 214,407, 6–10–69, Cl. D86—10.
Gantz, Carroll M., R. H. Hose, and J. T. Sestak, to The Hoover Co. Suction cleaner. 215,489, 9–30–69, Cl. D49—14.1.
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Gardner, Norman S. Motorized golf cart. 214,313, 6–3–69, Cl. D14—3.
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Guodace, Frank K. Spoon or similar article of flatware. 213,912, 4–22–69, Cl. D54—12.
Gurr, Robert H., to Wed Enterprises Inc. Rocket amusement ride car. 213,888, 4–22–69, Cl. D34—5.
Gurr, Robert H., to Wed Enterprises, Inc. Amusement ride auto. 215,313, 9–23–69, Cl. D34—5.
Gurtner, Lucien, to Charles Tissot & Co. Watch band. 214,809, 7–29–69, Cl. D45—4.
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Gutowski, Wojciech S., F. J. Kuchta, and R. F. West, to The Stanley Works. Measuring tool for carpentry and the like. 213,643, 3–25–69, Cl. D52—6.
Gutsche, Henry W., D. M. Harris, and R. J. Walsh, to Monsanto Co. Wafer tray. 215,270, 9–23–69, Cl. D9—187.
Gutschmidt, Earl E. and E. J. Concrete form stake. 216,073, 11–25–69, Cl. D8—45.
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H & P Mfg. Corp.: *See*—
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Haaland, John E., and C. P. Graf. Base for a cigarette lighter. 216,272, 12–9–69, Cl. D48—27.
Haas, Howard G., and J. J. Corrigan, to Sealy Inc. Mattress core. 215,263, 9–23–69, Cl. D5—2.
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Hackman, Donald J., J. L. Hillman, and R. L. Legue, to Oceanautic Mfg. and Research Co. Portable tool. 215,407, 9–30–69, Cl. D8—68.
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Hafner, Karl, to Blessing-Werke KG. Clock. 215,555, 10–7–69, Cl. D42—7.
Hafner, Karl, to Blessing-Werke KG. Clock. 215,556, 10–7–69, Cl. D42—7.
Hagberg, Calvin A.: *See*—
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Hagelbarger, David W., to Bell Telephone Laboratories, Inc. Telephone dial wheel or similar article. 213,832, 4–15–69, Cl. D26—14.
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Hain, Robert W., and R. A. Warn, Sr., to Washington Forge, Inc. Knife box. 213,513, 3–11–69. Cl. D44—29.
Hain, Robert W., and R. A. Warn, Sr., to Washington Forge, Inc. Knife box. 213,514, 3–11–69, Cl. D44—29.
Halaby, Samuel A., Jr., and R. C. Meisenzahl, to Samuel Halaby, Inc. Sprayer for insecticides or the like. 215,437, 9–30–69, Cl. D23—17.
Halaby, Samuel A., Jr., and R. C. Meisenzahl, to Samuel, Inc. Fluid container for insecticide sprayers. 216,309, 12–16–69, Cl. D23—18.
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Haley, Dwight L., to Ferro Corp. Combined reflective highway lane divider and road marker. 215,376, 9–23–69, Cl. D72—1.
Hall, George L., and M. H. Mickey. Stool. 213,552, 3–18–69, Cl. D15—8.

Hall, John C., to Productline, Inc. Hand tool for perforating. 215,198, 9–16–69, Cl. D8—98.
Hall, Joseph F. Combined fishing rod holder and signalling device. 213,778, 4–8–69, Cl. D22—22.
Hall, Nicholas. Poker chip dispensing device. 215,315, 9–23–69, Cl. D34—13.
Hall, Robert M. Surgical drill. 215,678, 10–21–69, Cl. D83—12.
Hall, Thomas A. Toy airplane. 213,988, 4–29–69, Cl. D34—15.
Hallahan, Daniel T., to Sanjo Utility Mfg. Co. Inc. Rolling support for garment hangers. 214,107, 5–6–69, Cl. D80—8.
Hallock, Edward C. Grille. 213,847, 4–15–69, Cl. D54—2.
Hames, Lester D. Clock. 216,406, 12–30–69, Cl. D42—7.
Hamilton, Clarence O., II, R. C. Winters, and R. R. Spilman, to Hamilton Cosco, Inc. Adjustable infant's chair. 213,870, 4–22–69, Cl. D15—1.
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Hamilton, John J., and C. E. Schroer, to Hamilton Cosco, Inc. Table. 215,858, 11–4–69, Cl. D33—14.
Hamilton, Norris A. Support for a log or the like. 216,261, 12–9–69, Cl. D23—98.
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Hammond, Charles A. Tire. 214,412, 6–10–69, Cl. D90—20.
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Hanson, Thomas E., and J. R. Lindsay, to Proctor-Silex Inc. Power unit for a blender or the like. 215,680, 10–21–69, Cl. D89—1.
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Haskin, Donald F., and M. Becker, to Resort Products, Inc. Amphibious seating ring. 215,973, 11–11–69, Cl. D71—1.
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Klayman, Saul, to Kandy-Pak, Inc. Decorative floral stake. 215,320, 9–23–69, Cl. D35—1.
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Klein, Henry. Decorative panel for furniture or the like. 213,973, 4–29–69, Cl. D33—1.
Klein, Henry. Frame for an overstuffed sofa or the like. 214,043, 5–6–69, Cl. D15—11.
Klein, Milton F., to General Time Corp. Clock casing. 213,457, 3–4–69, Cl. D42—7.
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Kliewer, Homer F., deceased (by B. J. Kliewer, administratrix), and J. E. Rawson, ⅔ to E. H. Schull, Hangar for high wing aircraft. 215,145, 9–9–69, Cl. D13—1.
Kliewer, Homer F., deceased (by B. J. Kliewer, administratrix), and J. E. Rawson, ⅔ to E. H. Schull, Hangar for low wing aircraft. 215,146, 9–9–69, Cl. D12—1.
Klink, Wolf-Dieter. Double buckle for twin safety belts. 213,087, 1–7–69, Cl. D2—408.
Klink, Wolf-Dieter. Safety belt buckle. 213,088, 1–7–69, Cl. D2—408.
Klitzner, Alan J. Golf putter head. 214,457, 6–17–69, Cl. D34—5.
Klugmann, Julius. Combined display card and hair piece package. 214,242, 5–20–69, Cl. D9—191.
Knab, James V., to Weber Showcase & Fixture Co., Div. of Walter Kidde & Co., Inc. Portable air filtration unit. 214,375, 6–10–69, Cl. D23—149.
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Kneale, Collan B., D. E. Sylte, R. B. Wheeler, and F. Wilkey, Jr., to International Business Machines Corp. Optical page reader. 214,626, 7–8–69, Cl. D26—5.
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Kneapler, Stephen J., to Richford Corp. Bottle. 213,308, 2–18–69, Cl. D9—143.
Kneapler, Stephen J., to Richford Corp. Bottle. 213,355, 2–5–69, Cl. D9—143.
Kneapler, Stephen J., to Richford Corp. Bottle closure. 213,430, 3–4–69, Cl. D9—285.
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Knigge, Ulrich H. Carrying bag for hand tools. 215,516, 9–30–69, Cl. D87—1.
Knight, Harry F., Jr., and D. E. Coyle, to Clopay Corp. Dispenser for sheet material. 215,671, 10–21–69, Cl. D52—2.
Knowles, Alvis R., to Eldon Industries, Inc. Heating element tip for ski repair. 213,782, 4–8–69, Cl. D26—1.

Knowles, Alvis R., to Eldon Industries, Inc. Electric solder pot. 215,448, 9–30–69, Cl. D23—77.
Knowles, Arthur N., and K. Jolly, to London Winery Ltd. Bottle. 213,259, 1–28–69, Cl. D9—23.
Knowles, Arthur N., and S. J. Cino, to London Winery Ltd. Bottle. 213,263, 1–28–69, Cl. D9—151.
Knowles, Frederick G., and E. O. Wangerin, to Eastman Kodak Co. Film cartridge or similar article. 215,358, 9–23–69, Cl. D61—1.
Kobayashi, Tatsuo, to Mac Corp. Knife. 216,180, 11–25–69, Cl. D95—3.
Koch, Arnold H., to General Fire Extinguisher Corp. Cover for a portable fire extinguisher. 213,954, 4–29–69, Cl. D16—2.
Koch, Edward W., and D. C. Dorsi, to Sterling Glass Laboratories, Inc. Drinking glass. 215,554, 10–7–69, Cl. D36—8.
Koch, George A., to Curtis Products Ltd. Chair. 213,191, 1–14–69, Cl. D15—1.
Koch, George A., to Curtis Products Ltd. Chair. 213,438, 3–4–69, Cl. D15—1.
Koch, George A., to Curtis Products Ltd. Arm chair. 213,439, 3–4–69, Cl. D15—1.
Koch, Walter L., and K. A. Day, to Rowe International, Inc. Merchandising machine panel. 214,341, 6–3–69, Cl. D52—3.
Koch, Walter L., and K. A. Day, to Rowe International, Inc. Coin insertion slot. 214,948, 8–12–69, Cl. D52—3.
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Kraus, Alex. Automobile window crank. 215,813, 11–4–69, Cl. D8—161.
Kraus, Alex. Automobile door handle. 215,814, 11–4–69, Cl. D8—161.
Kraus, Richard W., and J. G. Rondepierre, to Atlantic Aviation Corp. Utilities module for aircraft cabin interior. 213,144, 1–7–69. Cl. D71—1.
Kraus, Richard W., and J. G. Rondepierre, to Atlantic Aviation Corp. Combined window frame and shade for aircraft cabin interior. 213,145. 1–7–69, Cl. D71—1.
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McAllister, Raymond O. Golf putter. 213,838, 4–15–69, Cl. D34—5.
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McCord, Wilfred M., Jr., to Vermont American Corp. Adjustable handle file frame or the like. 213,894, 4–22–69, Cl. D37—1.
McCord, Wilfred M., Jr., to Vermont American Corp. Adjustable handle file frame or the like. 213,895, 4–22–69, Cl. D37—1.
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McCue, Daniel E., to Rival Mfg. Co. Combined electric can opener and knife sharpener. 214,775, 7–29–69, Cl. D8—35.
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McFarland, Norman T., to Marvin Glass & Associates. Illuminable desk set. 214,349, 6–3–69. Cl. D74—5.
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Mike, Zoltan, to The Armstrong Rubber Co. Tire. 215,523, 9–30–69, Cl. D90—20.
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Rosing, Helen J. Combined playhouse and slide. 213,506, 3–11–69, Cl. D34—5.
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Ross, John. Portable dish washer. 213,637, 3–25–69, Cl. D49—1.
Ross, John H., Jr. Tank ball. 214,499, 6–24–69, Cl. D23—33.
Ross, Lloyd D., Jr., to Electronic Music Corp. Portable plural channel electronic amplifier. 214,057, 5–6–69, Cl. D26—14.
Ross, Sherwood B. Operating lever console. 213,747, 4–1–69, Cl. D90—1.
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Rottinghaus, Norma I. Cake cutter. 216,325, 12–16–69, Cl. D44—1.
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Toffolon, Siro R., to General Time Corp. Clock casing. 216,035, 11–18–69, Cl. D42—7.
Toffolon, Siro R., to World Tableware Corp. Spoon or similar article of flatware. 216,159, 11–25–69, Cl. D54—12.
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Tolar, James H., to Tenna Corp. Cartridge type tape player. 216,397, 12–30–69, Cl. D26—14.
Tolar, James H., to Tenna Corp. Cartridge type tape player. 216,398, 12–30–69, Cl. D26—14.
Tolar, James H., to Tenna Corp. Cartridge type tape player. 216,399. 12–30–69. Cl. D26—14.
Tolmie, Robert J., to Sperry Rand Corp. Shaver holder. 213,206, 1–14–69, Cl. D33—23.
Tolmie, Robert J., to Sperry Rand Corp. Hair roller. 215,781, 10–28–69, Cl. D86—10.
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Tominaga, Naoki, to Sonyo Electric Co., Ltd. Portable radio receiver. 215,620, 10–14–69, Cl. D56—4.
Tominaga, Naoki, to Sanyo Electric Co., Ltd. Radio receiver. 215,621, 10–14–69, Cl. D56—4.
Tomkinson, Stanley E., to General Electric Co. Dynamo-electric machine end frame. 213,626, 3–25–69, Cl. D26—5.
Tompkins, David D., to Bissell Inc. Bottle. 214,871, 8–12–69, Cl. D9—43.
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Tormey, Robert M. Vehicle lift. 213,713, 4–1–69, Cl. D41—1.
Torres, Noel M. Rear view mirror. 314,436, 6–17–69, Cl. D14—6.
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Richmond, Colin B., II. 215,023.
Richmond, Colin B., II. 215,025.
Richmond, Colin B., II. 215,026.
Townsend, Richard, to D. G. Griswold. Remote control valve. 213,104, 1–7–69, Cl. D23—19.
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Bozzi, Ann R. 214,688.
Travis, Charles C. Game board. 215,739, 10–28–69, Cl. D34—5.
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Triplett, James T. Industrial vehicle. 215,422, 9–30–69, Cl. D14—3.
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Troutman, Lena L. Vase or similar article. 214,172, 5–20–69, Cl. D29—28.
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Faulhaber, Roland A. 215,991.
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Stessel, Martin C., Dalton, Dulin, Jones, and Schachner. 214,699.
Yamagishi, Teruo, to Hayakawa Denki Kogyo Kabushiki Kaisha (also known as Hayakawa Electric Co., Ltd.). Electronic cooking oven. 216,284, 12–9–69, Cl. D81—4.
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Ekuan, Kenji. 216,390.
Yamamoto, Yuuki. Skillet-covered cooking pot. 216,324, 12–16–69, Cl. D44—1.
Yang, Peter Q., to The Gray Mfg. Co. Transcribing adaptor or similar article. 213,568, 3–18–69, Cl. D26—14.
Yang, Peter Q., to The Gray Mfg. Co. Combined portable dictating and transcribing machine or similar article. 214,794, 7–29–69, Cl. D26—14.
Yeager, Eugene W., to Digital Information Devices Inc. Data keyboard. 215,297, 9–23–69, Cl. D26—5.
Yentis, Jonathan, and C. H. Staff, to Pet Inc. Snack food. 215,194, 9–16–69, Cl. D1—13.
Yeo, Ronald W. Newspaper display stand. 213,532, 3–11–69, Cl. D80—11.
Yon, James H., Jr., to Jett Mfg. Corp. Automatic lubrication system for knitting machines. 213,515, 3–11–69, Cl. D46—1.
Yonkers, Robert A., to Bissell Inc. Combined fluid dispenser with brush for cleaning upholstery or the like. 214,260, 5–27–69, Cl. D4—7.
Yoshinaga Prince Co., Ltd.: *See*—
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Yoshino, Zenzaburo, to Zenza Bronica Kogyo Kabushiki Kaisha. Cigarette lighter. 213,517, 3–11–69, Cl. D48—27.

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Young, David E., to Electone Hearing Aid Co. Hearing aid. 213,109, 1–7–69, Cl. D26—14.
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Young, Robert H. Specialized building for vehicle service. 214,885, 8–12–69, Cl. D13—1.
Young, Stephen A. Single lever lavatory shell or the like. 213,875, 4–22–69, Cl. D23—32.
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Inman, Samuel W., Jr., and Yow. 215,763.
Yran, Knut O., to U.S. Philips Corp. Radio. 215,675, 10–21–69, Cl. D56—4.
Yran, Knut O., to U.S. Philips Corp. Combination radio and battery charger. 216,374, 12–23–69, Cl. D56—4.
Yurdin, Carl R., to Branson Instruments, Inc. Ultrasonic cleaning apparatus. 215,017, 8–19–69, Cl. D49—1.
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Yutzey, Marvin G., to Morgantown Glassware Guild, Inc. Pitcher. 213,331, 2–18–69, Cl. D44—21.
Yutzey, Marvin G., to Morgantown Glassware Guild, Inc. Tumbler or similar article. 214,578, 7–1–69, Cl. D36—8.
Zacharia, Anthony. Holder for a paper pad. 213,236, 1–14–69, Cl. D74—1.
Zagwyn, Anthony T., to A.J. Industries Corp. Golf cart handle grip. 215,081, 9–2–69, Cl. D8—138.
Zahler, Norvert J. Snow scoop. 214,636, 7–8–69, Cl. D35—2.
Zandelin, Johan S. Telephone index. 213,148, 1–7–69, Cl. D74—1.
Zanuso, Marco, and R. F. Sapper, to Necchi Societa per Azioni. Design for a sewing machine. 215,368, 9–23–69, Cl. D70—1.
Zapolski, Bronislaw, to H. J. Ashe. Portable electric lamp. 214,752, 7–22–69, Cl. D48—24.
Zapolski, Bronislaw, to H. J. Ashe. Clip-on flashlight. 214,943, 8–12–69, Cl. D48—24.
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Ziegler, Harry E., to May-Fran Mfg. Co. Conveyor. 214,094, 5–6–69, Cl. D55—1.
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Ziegler, Philip C. Fish lure. 214,045, 5–6–69, Cl. D22—27.
Zielinski, Norbert. Combined target and game board. 213,209, 1–14–69, Cl. D34—5.
Zijlstra, Rudolph B., to U.S. Philips Corp. Dust bag filling indicator. 214,087, 5–6–69, Cl. D52—6.
Zilg, George L., and J. S. Kirman, to The Singer Co. Pin cushion or similar article. 215,046, 8–26–69, Cl. D3—19.
Zimmon, Harold, and D. L. Strom, to American Hospital Supply Corp. Nurse's surgical cap. 214,482, 6–24–69, Cl. D2—243.
Zundel, Arthur P., to American Can Co. End closure for a container. 215,923, 11–11–69, Cl. D9—255.

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Anderson, Frederic W., to Reedley Nursery, Inc. Nectarine tree. 2,878, 4–1–69, Cl. 41.

Anderson, Frederic W., to Reedley Nursery, Inc. Nectarine tree. 2,879, 4–1–69, Cl. 41.

Anderson, Frederic W., to Reedley Nursery, Inc. Apricot tree. 2,880, 4–22–69, Cl. 39.

Anderson, Frederic W., to Reedley Nursery, Inc. Nectarine tree. 2,883, 5–6–69, Cl. 41.

Anderson, Frederic W., to Reedley Nursery, Inc. Nectarine tree. 2,894, 6–10–69, Cl. 41.

Anderson, Frederic W., to Reedley Nursery, Inc. Nectarine tree. 2,895, 6–10–69, Cl. 41.

Anderson, Frederic W., to Reedley Nursery, Inc. Nectarine tree. 2,896, 6–17–69, Cl. 41.

Armstrong, David L., to Armstrong Nurseries, Inc. Rose plant. 2,900, 7–1–69, Cl. 15.

Armstrong, David L., to Armstrong Nurseries, Inc. Rose plant. 2,914, 8–5–69, Cl. 18.

Armstrong, David L., to Armstrong Nurseries, Inc. Rose plant. 2,915, 8–5–69, Cl. 6.

Armstrong, David L., to Armstrong Nurseries, Inc. Rose plant. 2,927, 10–7–69, Cl. 20.

Armstrong, David L., to Armstrong Nurseries, Inc. Rose plant. 2,928, 10–7–69, Cl. 19.

Armstrong, David L., to Armstrong Nurseries, Inc. Nectarine tree. 2,929, 10–7–69, Cl. 41.

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Armstrong, David L., to Armstrong Nurseries, Inc. Nectarine tree. 2,943, 11–25–69, Cl. 41.

Armstrong, David L., to Stark Bro's Nurseries & Orchards Co. Peach tree. 2,944, 11–25–69, Cl. 43.

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Armstrong, David L. 2,929.
Armstrong, David L. 2,930.
Armstrong, David L. 2,943.
Armstrong, David L. 2,958.
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Asper, James H., to Monrovia Nursery Co. Camellia plant. 2,873, 3–25–69, Cl. 61.

Asper, James H., to Monrovia Nursery Co. Camellia plant. 2,874, 3–25–69, Cl. 61.

Asper, James H., to Monrovia Nursery Co. Camellia plant. 2,875, 3–25–69, Cl. 61.

Baerman, Ralph, to Selected Glads, Inc. Gladiolus plant. 2,903, 7–15–69, Cl. 85.

Bodley, Royden M. Rose plant. 2,893, 6–10–69, Cl. 27.

Boerner, Eugene S., deceased (by Lincoln Rochester Trust Co., and R. L. Boerner, executors), to Jackson & Perkins Co. Chrysanthemum plant. 2,866, 2–25–69, Cl. 78.

Boerner, Eugene S., deceased (by Lincoln Rochester Trust Co., and R. L. Boerner, executors), to Jackson & Perkins Co. Rose plant. 2,885, 5–6–69, Cl. 26.

Boerner, Eugene S., deceased (by Lincoln Rochester Trust Co., and R. L. Boerner, executors), to Jackson & Perkins Co. Rose plant. 2,886, 5–13–69, Cl. 26.

Boerner, Roger L.: *See*—
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Boyd, Fernando C., Jr., to Boyd Nursery Co., Inc. Dogwood tree. 2,916, 8–12–69, Cl. 51.

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Burchell Nursery, Inc., The: *See*—
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Calvino, Stefano. Rose plant. 2,932, 10–21–69, Cl. 19.

Calvino, Stefano. Hybrid tea rose plant, specially adapted for large-scale cultivation for cut flower production. 2,933, 10–21–69, Cl. 20.

Chaplin, Charles F. Dieffenbachia plant. 2,869, 2–25–69, Cl. 88.

Cobia, Barnell L. Variety of Hoya Carnosa with tricolor foliage. 2,950, 12–9–69, Cl. 88.

De Graaff, Jan, to Oregon Bulb Farms, Division of Melridge Inc. Lily plant. 2,882, 5–6–69, Cl. 68.

Diede, Herbert, to Stark Bro's Nurseries & Orchards Co. Apple tree. 2,956, 12–23–69, Cl. 35.

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Johnson, Harold A., Jr., and Thomas. 2,891.
Johnson, Harold A., Jr. and Thomas. 2,892.
Johnson, Harold A., Jr., and Thomas. 2,897.

Ecke, Paul. Poinsettia plant. 2,865, 2–25–69, Cl. 86.

Ecke, Paul, to Paul Ecke, Inc. Poinsettia plant. 2,923, 9–30–69, Cl. 86.

Ecke, Paul, to Paul Ecke, Inc. Poinsettia plant. 2,924, 9–30–69, Cl. 86.

Ecke, Paul, to Paul Ecke, Inc. Poinsettia plant. 2,925, 9–30–69, Cl. 86.

Ecke, Paul, to Paul Ecke, Inc. Poinsettia plant. 2,926, 9–30–69, Cl. 86.

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Flemer, William, III, to Treesearch. Crab apple tree. 2,912, 7–29–69, Cl. 34.

Flemer, William, III, to Treesearch. Crab apple tree. 2,913, 7–29–69, Cl. 34.

Flemer, William, III, to Treesearch. Maple tree. 2,917. 8–12–69, Cl. 51.

Flemer, William, III, to Treesearch. Yellow-wood tree. 2,935, 10–28–69, Cl. 51.

Flemer, William, III, to Treesearch. Oak tree. 2,936, 10–28–69, Cl. 51.

Fritscher, Henry G., to Selected Glads, Inc. Gladiolus plant. 2,904, 7–15–69, Cl. 85.

Gabrielsen, Joseph A. Purple raspberry. 2,898, 7–1–69, Cl. 46.

Garabedian, John M., to Peach & Willow Farms. Plum tree. 2,858, 1–21–69, Cl. 38.

Hagestrom, Marion, to Stark Bro's Nurseries & Orchards Co. Strawberry plant. 2,884, 5–6–69, Cl. 48.

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Robison, Stanley, and Wallace. 2,934.

Holtkamp, Hermann, Sr. African violet plant. 2,922, 9–30–69, Cl. 69.

Huston, Tom, to Peaches of Florida, Inc. Peach tree. 2,888, 5–20–69, Cl. 43.

Jackson & Perkins Co.: *See*—
Boerner, Eugene S. 2,866.
Boerner, Eugene S. 2,885.
Boerner, Eugene S. 2,886.
Zombory, William and S. B. 2,867.

Jelly, Robert G., to E. G. Hill Co., Inc. Rose plant. 2,902, 7–8–69, Cl. 22.

Jensen, Peter A. R. Thuja occidentalis. 2,861, 2–18–69, Cl. 50.

Johnson, Harold A., Jr., and H. E. Thomas, to Driscoll Strawberry Associates. Strawberry plant. 2,891, 6–10–69, Cl. 49.

Johnson, Harold A., Jr. and H. E. Thomas to Driscoll Strawberry Associates, Strawberry plant. 2,892, 6–10–69, Cl. 48.

Johnson, Harold A., Jr., and H. E. Thomas, to Driscoll Strawberry Associates. Strawberry plant. 2,897, 7–1–69, Cl. 49.

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Kerrigan, Howard. Azalea plant. 2,939, 11–11–69, Cl. 57.

Klehm, Carl G. Variety of peony. 2,951, 12–16–69, Cl. 68.

Klehm, Carl G. Peony. 2,952, 12–16–69, Cl. 68.

Klehm, Carl G. Peony. 2,953, 12–16–69, Cl. 68.

Klehm, Carl G. Peony. 2,954, 12–16–69, Cl. 68.

Klehm, Carl G. Peony. 2,955, 12–16–69, Cl. 68.

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Larus, John R. and C. T. 2,905.

Larus, John R. and C. T., to Selected Glads, Inc. Gladiolus plant. 2,905,7–15–69, Cl. 85.

Le Grice, Edward B. Rosa floribunda plant. 2,856, 1–21–69. Cl. 28.

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Boerner, Eugene S. 2,885.
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Long, John A., to The O. M. Scott & Sons Co. St. Augustinegrass. 2,863, 2–18–69, Cl. 88

Long, John A., to The O. M. Scott & Sons Co. St. Augustinegrass. 2,864. 2–18–69, Cl. 88.

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McFeely, George R. Plum tree. 2,938, 11–11–69, Cl. 38.
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McLucas, Ben F. Peach tree. 2,931, 10–14–69, Cl. 43.
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Meilland, Marie L. Rose plant. 2,859, 1–28–69, Cl. 20.
Meilland, Marie Louise. Rose plant. 2,862, 2–18–69, Cl. 11.
Meilland, Marie L. Rose plant. 2,949, 12–9–69, Cl. 15.
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Mercuri, Pasquale, and Mercury. 2,871.
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Moore, Ralph S. Miniature rose plant. 2,910, 7–22–69, Cl. 7.
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Murray, Merritt J., to A. M. Todd Co. Mint strain. 2,908, 7–22–69, Cl. 89.
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Anderson, Frederic W. 2,879.
Anderson, Frederic W. 2,880.
Anderson, Frederic W. 2,883.
Anderson, Frederic W. 2,894.
Anderson, Frederic W. 2,895.
Anderson, Frederic W. 2,896.
Wileman, Leonard K. 2,937.
Robison, Stanley, and I. E. Wallace, to Hill Top Orchards and Nurseries, Inc. Apple tree. 2,934, 10–21–69, Cl. 34.
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Russo, Mariano B., and Slaybaugh. 2,940.
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Agett, Albert H., and P. Gallagher, to Eastman Kodak Co. Filter cigarette assembly having its paper overwrap mechanically locked in place. 861,014, 4–8–69. Cl. 131—10.

Aiken, Howard A., and G. C. Oppenlander, to Hercules Inc. Process for dry spinning poly(4-methyl-1-pentene). 860,003, 3–18–69. Cl. 264—210.

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Barkey, Kenneth T., and D. C. May. Apparatus and method for improving solid phase, fluidized bed polyesterification process. 864,018, 7–29–69. Cl. 260—75.

Barnett, Anthony M., R. F. Bulgin, M. Smith, and I. R. Dicker. Photographic element containing a developing agent and a water-insoluble zinc salt. 867,011, 10–21–69. Cl. 96—61.

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Baxter, William F., Jr., and W. E. Draper. Partially oxidized polyethylene coatings for fresh eggs. 869,022, 12–30–69, Cl. 99—161.

Bayer, Robert O. Inorganic fibers containing positively charged silica and fibrous potassium titanate. 864,015, 7–29–69, Cl. 162—152.

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Beavers, Dorothy J. Cyclic diones as emulsion stabilizers and antifoggants. 866,035, 9–30–69. Cl. 96—85.

Beavers, Dorothy J. Silver halide emulsions containing metal chelate fog inhibitors. 866,022, 9–16–69. Cl. 96—110.

Beavers, Dorothy J., and W. F. Smith. Photographic materials stabilized with oxypentamidine and tetraazaindene antifoggants. 864,022. 7–29–69. Cl. 96—109.

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Gordy, Travis L., and Becraft. 866,033.

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Wood, George F. L.: *See*—
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Woolgar, Ronald J. H., to Ford Motor Co. Collapsible steering column for a motor vehicle. 866,016, 9–16–69. Cl. 74—492.
Wooten, Willis C., Jr.: *See*—
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LIST OF DISCLAIMERS AND DEDICATIONS

Adler, Norwood A., Oakland City, Ind. Dedication filed Dec. 19, 1968, by the assignee, Kent Plastics Corporation. No. 3,365,321; v. 861; p. 1344.

Aikens, Andrew J., East Orange, Nelson Botsford, Morristown, and Albert P. Boysen, Jr., Basking Ridge, N.J., Eginhard Dietze, deceased, by Katherine R. Dietze, executrix, Clearwater, Fla., Walter D. Goodale, Jr., Summit, and Alfred H. Inglis, Upper Montclair, N.J. Disclaimer filed Nov. 5, 1968, by the assignee, Bell Telephone Laboratories, Incorporated. No. 2,732,436; v. 861; p. 343.

Albertson, Orris E., Norwalk, and William E. Budd, Ridgefield, Conn. Disclaimer and dedication filed Sept. 27, 1968, by the assignee, Dorr-Oliver Incorporated. No. 3,351,030; v. 858; p. 1029.

Allen, Charles F. H., and Donald M. Burness, Rochester, N.Y. Disclaimer filed May 15, 1969, by the assignee, Eastman Kodak Company. No. 3,232,764; v. 867; p. 334.

Allen, William A., San Bernardino, Calif. Disclaimer filed Jan. 21, 1969, by the assignee, Jarke Corporation. No. 3,360,143; v. 866; p. 1032.

Anderson, Gerald R., Campbell, Calif. Disclaimer filed Mar. 3, 1969, by the assignee FMC Corporation. No. 3,269,441; v. 864; p. 324.

Arditi, Maurice, Clifton, N.J. Disclaimer filed July 15, 1969, by the assignee, International Telephone and Telegraph Corporation. No. 3,174,114; v. 868; p. 1.

Arko, Robert E., Mount Prospect, Ill. Dedication filed Aug. 20, 1969, by the assignee, Teletype Corporation. No. 3,226,477; v. 869; p. 345.

Auten, Charles R., Charlotte, N.C., and Howard H. Langdon, Fairport, N.Y. Disclaimer filed Jan. 16, 1969, by the assignee, Curlator Corporation. No. 3,326,609; v. 862; p. 986.

Barkman, Aaron and Mike S. Fujimoto, Chicago, and Burnham R. Orwig, Crete, Ill. Disclaimer and dedication filed Mar. 10, 1969, by the assignee, The Sherwin-Williams Company. No. 3,050,263; v. 866; p. 1031.

Barr, Dennis Arthur, Welwyn, Eric Nield, Stevenage, and John Brewster Rose, St. Albans, England. Disclaimer filed Nov. 22, 1968, by the assignee, Imperial Chemical Industries Limited. No. 3,352,832; v. 861; p. 2.

Barrett, Arthur M., Jr., Northbrook, Ill. Disclaimer filed Nov. 8, 1968, by the inventor; the assignee, Barrett Electronics Corporation, consenting. No. 3,128,840; v. 861; p. 1343.

Bates, Arthur I., Wilmington, Del. Disclaimer filed May 22, 1969, by the assignee, FMC Corporation. No. 3,146,116; v. 869; p. 1361.

Becking, Paul E., Lake Orion, James D. Bungard, East Detroit, and Roy E. Sherman, Warren, Mich. Disclaimer filed Jan. 27, 1969, by the assignee, Intercontinental Systems, Inc. No. 3,283,871; v. 860; p. 1.

Bertelsen, Bruce I., Essex Junction, Vt. Disclaimer filed Aug. 22, 1969, by the assignee, International Business Machines Corporation. No. 3,361,659; v. 869; p. 687.

Blackmer, David E., Waltham, Mass. Disclaimer filed Aug. 23, 1968, by the assignee, Leeds & Northrup Company. No. 3,283,157; v. 858; p. 1.

Bock, Gerald L., and Charles Weber, Elkhart County, Ind. Disclaimer filed Mar. 14, 1969, by the assignee, Elkhart Welding and Boiler Works, Inc. No. 3,206,224; v. 864; p. 324.

Boggs, Beryl A., Chesterfield County, Va. Disclaimer filed Apr. 28, 1969, by the assignee, Allied Chemical Corporation. No. 3,383,848; v. 863; p. 2.

Boleskv, John D., Mansfield, Ohio. Dedication filed Apr. 4, 1969, by the assignee, Therm-O-Disc, Incorporated. Reissue No. 26,406; v. 865; p. 317.

Bonvicini, Alberto, Terni, Italy. Disclaimer filed Aug. 13, 1969, by the assignee, Montecatini Edison S.p.A. No. 3,267,046; v. 869; p. 346.

Boyajian, Setrak K., Worcester, Mass. Dedication filed Oct. 17, 1968, by the assignee, E. I. du Pont de Nemours and and Company. Reissue No. 26,142; v. 860; p. 1.

Brainard, Wallace E., Milwaukee, and Kenneth R. Merner, Greendale, Wis. Disclaimer filed Sept. 24, 1969, by the assignee, Kearney & Trecker Corporation. No. 3,099,873; v. 868; p. 1.

Brekke, Byron O., Brooklyn Center, Minn. Disclaimer filed Apr. 21, 1969, by the assignee, Honeywell Inc. No. 3,083,930; v. 866; p. 1032.

Brekke, Bryan O., Brooklyn Center, Minn. and Roy C. Johnston, Dallas, Tex. Disclaimer filed Apr. 21, 1969, by the assignee, Honeywell Inc. No. 3,131,371; v. 866; p. 1032.

Brown, Edward L., Middletown, Ohio. Disclaimer filed Dec. 23, 1968, by the assignee, Armco Steel Corporation. No. 3,324,616; v. 861; p. 1343.

Brown, Morris E., Rochester, N.Y. Disclaimer filed Sept. 16, 1969, by the assignee, Eastman Kodak Company. No. 3,291,022; v. 867; p. 1066.

Brown, Omar L., Dayton, Ohio. Disclaimer filed July 28, 1969, by the assignee, Ermal C. Fraze. No. 3,445,028; v. 868; p. 2.

Budd, Allan L., La Habra, Calif. Disclaimer filed Aug. 20, 1968, by the assignee, Beckman Instruments, Inc. No. 3,278,399; v. 858; p. 1.

Bullard, Robert A., Westboro, Mass. Disclaimer filed May 26, 1969, by the assignee, George H. Bullard Co., Inc. No. 3,081,584; v. 867; p. 334.

Burke, Lawrence A., Royal Oak, Mich. Disclaimer filed Nov. 6, 1968, by the assignee, Temprite Products Corporation. No. 3,298,191; v. 859; p. 2.

Cagle, William B., Colts Neck, and Robert S. Menne, Little Silver, N.J. Disclaimer filed Oct. 21, 1968, by the assignee, Bell Telephone Laboratories, Incorporated. No. 3,350,692; v. 860; p. 661.

Capita, Emil Robert, North Bergen, N.J. Disclaimer filed Dec. 4, 1968, by the assignee, Western Electric Company, Incorporated. No. 3,233,578; v. 863; p. 647.

Carlson, Norman G., White Bear Lake Township, Ramsey County, Minn. Disclaimer filed Aug. 11, 1969, by the inventor; the assignee, Minnesota Mining and Manufacturing Company, consenting. No. 3,210,166; v. 866; p. 685.

Carrier, Robert M., Jr., Jeffersonville, Ind. Disclaimer filed May 2, 1969, by the assignee, Carman Industries Inc. Reissue No. 26,291; v. 867; p. 334.

Carter, Clarence J., Rolling Hills, Calif., and Richard F. Stewart, Richardson, Tex. Disclaimer filed May 8, 1969, by the assignee, Texas Instruments Incorporated. No. 3,377,215; v. 863; p. 647.

Chopra, Kasturi L., Lexington, and Myron Ronald Randlett, North Wilmington, Mass. Disclaimer filed Feb. 20, 1969, by the assignee, Kennecott Copper Corporation. No. 3,409,529; v. 863; p. 2.

Christensen, Frank L, Saratoga, Calif. Disclaimer filed Jan. 16, 1969, by the assignee, Tempress Research Co. No. 3,358,897; v. 862; p. 986.

Christian, Joseph Dennis, San Francisco, Calif. Disclaimer filed May 16, 1969, by the assignee, Packaged Power Terminals Inc. No. 3,386,708; v. 863; p. 979.

Clark, Clayton H., Mundelein, and Donald J. Stefanik, Berwyn, Ill. Disclaimer filed Nov. 18, 1969, by the assignee, SCM Corporation. No. 3,291,909; v. 869; p. 1361.

Clark, Clayton H., Mundelein, and Donald J. Stefanik, Berwyn, Ill. Disclaimer filed Nov. 18, 1969, by the assignee, SCM Corporation. No. 3,417,690; v. 869; p. 1361.

Clark, Robert E., and Jorma O. Sarto, Orchard Lake, Mich. Disclaimer filed Apr. 28, 1969, by the inventors; the assignee, Chrysler Corporation, consenting. No. 3,356,083; v. 864; p. 324.

Coggeshall, Almy D., Schenectady, and Linn T. Stafford, Scotia, N.Y. Disclaimer filed June 11, 1969, by the assignee, General Electric Company. No. 2,747,118; v. 867; p. 334.

Cramer, Robert H., Sylvander C. Eastwood, Woodbury, and Abbott F. Houser, Cherry Hill, N.J. Disclaimer filed Nov. 20, 1968, by the assignee, Mobil Oil Corporation. No. 3,193,491; v. 861; p. 2.

Cramer, Robert H., Woodbury, and Abbott F. Houser, Merchantville, N.J., Albert B. Schwartz, Philadelphia, Pa., and Robert C. Wilson, Jr., Woodbury, N.J. Disclaimer filed Nov. 20, 1968; by the assignee, Mobil Oil Corporation. No. 3,193,511; v. 861; p. 2.

Cunningham, Robert A., Bellaire, Gerald O. Aktinson, Pasadena, and William H. Cline, Jr., deceased, late of Bellaire, by Marilynn C. Cline, executrix, Houston, Tex. Disclaimer and dedication filed Sept. 11, 1968, by the assignee, Hughes Tool Company. No. 3,199,878; v. 858; p. 1029.

Daleo, Frank G., Armonk, N.Y. Disclaimer filed Oct. 22, 1968, by the assignee, Lear Siegler, Inc. No. 3,353,408; v. 860; p. 661.

Dall, Albert H., and George L. Grove, Cincinnati, Ohio. Disclaimer filed July 1, 1969, by the assignee, The Cincinnati Milling Machine Co. No. 3,046,704; v. 865; p. 664.

Daub, Rudolph, Caldwell, N.J. Disclaimer filed May 23, 1969, by the inventor. No. 3,023,061; v. 864; p. 323.

Davis, Edward M., Jr., and Arthur H. Mones, Poughkeepsie, N.Y. Disclaimer filed Mar. 14, 1969, by the assignee, International Business Machines Corporation. No. 3,456,158; v. 866; p. 1402.

Davis, Edward M., Jr., Chappaqua, and Robert D. McNutt and Arthur H. Mones, Poughkeepsie, N.Y. Disclaimer filed Mar. 14, 1969, by the assignee, International Business Machines Corporation. No. 3,456,159; v. 866; p. 1402.

Dempster, George R., and William A. Herpich, Knoxville, Tenn. Disclaimer filed Aug. 5, 1969, by the inventor, George R. Dempster, deceased, by Trust Company of Georgia, as executor, and the assignee, Dempster Brothers, Inc. No. 2,900,096; v. 869; p. 346.

De Stevents, George, and Lincoln Harvey Werner, Summit, N.J. Disclaimer filed June 16, 1969, by the inventors; the assignee, Ciba Corporation, consenting. No. 3,340,150; v. 867; p. 1066.

Dowgiallo, Edward J., Jr., Oxon Hill, Md. Disclaimer filed Oct. 7, 1968, by the inventor. No. 3,389,018; v. 861; p. 1344.

Dreyfus, Robert L., Arlington, and John W. Harrison, Winchester, Mass. Disclaimer filed Oct. 23, 1968, by the assignee, W. R. Grace & Company. No. 2,976,655; v. 859; p. 1007.

Ebert, Glenn W., Eugene, Oreg. Disclaimer filed Dec. 2, 1968, by the assignee, McKenzie Sand & Gravel Co. No. 3,415,499; v. 861; p. 1344.

Edwards, Richard A., Walnut Creek, Calif. Disclaimer filed May 2, 1969, by the assignee, Roto-Stamp Corporation. No. 3,255,941; v. 867; p. 334.

Egan, Clark J., Piedmont, and Robert J. White, Pinole, Calif. Disclaimer filed Dec. 11, 1968, by the assignee, Chevron Research Company. No. 3,365,390; v. 861; p. 1343.

Endres, Herbert A., Cuyahoga Falls, and James W. Shaw, Jr., Akron, Ohio, and Harold B. Pullar, Magnolia, Ark. Dedication filed Jan. 17, 1969, by the assignee, The Goodyear Tire & Rubber Company. No. 2,700,655; v. 863; p. 327.

Endres, Herbert A., Silver Lake, and James W. Shaw, Jr., Akron, Ohio, and Harold B. Pullar, Magnolia, Ark. Dedication filed Jan. 17, 1969, by the assignee, The Goodyear Tire & Rubber Company. No. 2,809,179; v. 863; p. 327.

Endres, Herbert A., Silver Lake, Ohio and Walter F. Winters, Winnetka, Ill. Dedication filed Jan. 17, 1969, by the assignee, The Goodyear Tire and Rubber Company. No. 2,921,919; v. 863; p. 327.

Endres, Herbert A., Silver Lake, and Warren W. Burr, West Richfield, Ohio. Dedication filed Jan. 17, 1969, by the assignee, The Goodyear Tire and Rubber Company. No. 3,127,367; v. 863; p. 327.

Endres, Herbert A., Cuyahoga Falls, Ohio, Harold B. Pullar, Hot Springs, Ark., and Paul W. Gilkeson, Jr., Houston, Tex. Dedication filed Jan. 17, 1969, by the assignee, The Goodyear Tire & Rubber Company. No. 3,202,623; v. 863; p. 327.

Endres, Herbert A., Silver Lake, Ohio. Dedication filed Jan. 17, 1969, by the assignee, The Goodyear Tire & Rubber Company. No. 3,253,521; v. 863; p. 328.

Fawkes, Donald G., Chicago, Ill. Disclaimer filed Apr. 14, 1969, by the assignee, Henry Pratt Company. No. 3,357,269; v. 862; p. 986.

Fawkes, Donald G., Aurora, Ill. Disclaimer filed July 5, 1968, by the assignee, Henry Pratt Company. No. 3,418,411; v. 860; p. 335.

Fohl, Timothy, East Acton, Mass. Disclaimer filed Aug. 27, 1969, by the assignee, Harry Eugene Stubbs. No. 3,460,384; v. 867; p. 1.

Ford, James A., Sturgis, Mich. Disclaimer filed Nov. 21, 1968, by the assignee, Kirsch Company. Reissue No. 26,269; v. 861; p. 343.

Fossel, Spencer M., Morristown, N.J. Disclaimer filed Dec. 2, 1968, by the assignee, Unimed, Inc. No. 3,439,096; v. 863; p. 647.

Friedly, Robert C., Lorain, Ohio. Dedication filed Feb. 5, 1969, by the assignee, Gregory Industries, Inc. No. 2,663,270; v. 863; p. 2.

Fryer, Rodney Ian, North Caldwell, and Leo Henryk Sternbach, Upper Montclair, N.J. Disclaimer filed Mar. 28, 1969, by the assignee, Hoffmann-La Roche Inc. No. 3,391,159; v. 864; p. 324.

Ganz, Robert H., Bergenfield, N.J. Disclaimer filed July 29, 1969, by the assignee, Continental Can Company, Inc. No. 3,187,479; v. 866; p. 685.

Gee, Paul Y. C., Woodbury, and Harry J. Andress, Jr., Pitman, N.J. Disclaimer filed Nov. 20, 1968, by the assignee, Mobil Oil Corporation. No. 3,264,075; v. 861; p. 2.

Gerry, Martin E., Santa Ana, Calif. Disclaimer filed Dec. 10, 1968, by the inventor. No. 3,359,665; v. 860; p. 1.

Glasby, Francis G., and Ernest B. Robinson, Chesterfield, England. Disclaimer filed Dec. 30, 1968, by the assignee, Robinson & Sons Ltd. No. 3,330,186; v. 861; p. 1343.

Goldberg, Earl J., Wilmington, Del. Disclaimer filed Oct. 31, 1968, by the assignee, E. I. du Pont de Nemours and Company. No. 3,055,952; v. 858; p. 1029.

Gotzfried, Konrad, Augsburg-Goggingen, Germany. Dedication filed Mar. 11, 1969, by the inventor. No. 2,911,783; v. 861; p. 1011.

Gotzfried, Konrad, Augsburg-Goggingen, Germany. Dedication filed Mar. 11, 1969, by the inventor. No. 2,928,228; v. 861; p. 1011.

Granger, David D., Conover, N.C. Disclaimer filed July 22, 1969, by the assignee, Maxwell Royal Chair Company. Design No. 211,633; v. 868; p. 1.

Granger, David D., Conover, N.C. Disclaimer filed July 22, 1969, by the assignee, Maxwell Royal Chair Company. Design No. 211,785; v. 868; p. 1.

Granger, David D., Conover, N.C. Disclaimer filed July 22, 1969, by the assignee, Maxwell Royal Chair Company. Design No. 211,786; v. 868; p. 1.

Griffith, George Edward, and Jose R. Cid, Mexico City, Mexico. Dedication filed June 16, 1969, by the assignee, Colgate-Palmolive Company. Design No. 213,074; v. 867; p. 333.

Grosholz, James R., Strafford, and John D. Wallace, Wyndmoor, Pa. Disclaimer filed Dec. 30, 1968, by the assignee, Air-Shields, Inc. No. 3,335,713; v. 861; p. 1343.

Haddadin, Makhluf J., and Costas H. Issidorides, Beirut, Lebanon. Disclaimer filed Jan. 27, 1969, by the assignee, Research Corporation. No. 3,398,141; v. 860; p. 335.

Hann, Melvin M., Rockford, Ill. Disclaimer filed June 25, 1969, by the assignee, Sundstrand Corporation. No. 2,888,810; v. 867; p. 334.

Hanson, Rudolph A., and Frank J. Deptula, Jackson, Mich. Disclaimer filed Dec. 23, 1968, by the assignee, Yard-Man, Inc. No. 3,299,622; v. 861; p. 1343.

Harp, Harry J., Jenkintown, Walter T. Leible, Conshohocken, and William M. McCort, Warmister, Pa. Disclaimer filed Sept. 5, 1969, by the assignee, Union Carbide Corporation. No. 3,409,224; v. 867; p. 334.

Hecht, Victor, Haysville, Kans. Dedication filed Sept. 25, 1968, by the inventor and the assignee, The Haysville State Bank. No. 3,054,594; v. 858; p. 1029.

Helfrey, Paul F., Montebello, Nicholas L. Kay, Fullerton, Bernal Peralta, Anaheim, and Cloyd P. Reeg, Orange, Calif. Disclaimer filed Aug. 13, 1969, by the assignee, Union Oil Company of California. No. 3,132,090; v. 866; p. 1032.

Henselee, Waldo W., Jr. and Darryl W. Cockrell, Houston, Tex. Disclaimer filed Aug. 9, 1968, by the assignee, Baker Oil Tools, Inc. No. 3,311,173; v 858; p. 1.

Hilbert, Richard G., Smithfield, R.I. Dedication filed Mar. 28, 1969, by the assignee, Leesona Corporation. No. 3,044,247; v. 864; p. 323.

Himelreich, Louis E., Louisville, Ky. Disclaimer filed July 15, 1969, by the assignee, H. J. Scheirich Company. No. 3,282,635; v. 868; p. 1057.

Hire, Charles John, Mansfield, Ohio. Dedication filed Apr. 4, 1969, by the assignee, Thermo-O-Disc, Incorporated. No. 3,248,501; v. 866; p. 1031.

Hirvela, Robert J., Cedar Rapids, Iowa. Disclaimer filed Mar. 11, 1969, by the inventor; the assignee, Collins Radio Company, assenting. No. 3,350,697; v. 864; p. 1390.

Hopkes, Henry, Jr., Groose Pointe Park, Mich. Disclaimer filed Apr. 14, 1969, by the assignee, Lear Siegler, Inc. Reissue No. 26,373; v. 865; p. 317.

Houlihan, William J., Mountain Lakes, N.J. Disclaimer filed Aug. 19, 1969, by the assignee, Sandoz Inc. No. 3,334,091; v. 866; p. 1402.

Jasper, John C., Hinsdale, Ill. Disclaimer and dedication filed May 22, 1969, by the assignee, Continental Can Company, Inc. No.3,406,866; v. 864; p. 654.

Jebens, Ray H. Bethesda, Md. and Everett N. Sieder, McLean, Va. Disclaimer filed June 6, 1969, by the assignee, United States of America as represented by the Secretary of the Interior, No. 3,320,137; v. 864; p. 1390.

Johnson, Walter L., Plaistow, N.H. Disclaimer filed June 9, 1969, by the assignee, Western Electric Company, Incorporated. No. 3,381,657; v. 864; p. 653.

Johnston, Henry E., Huntingdon Valley, Pa. Disclaimer filed Sept. 19, 1968, by the assignee, Philco-Ford Corporation. No. 3,271,035; v. 858; p. 1029.

Jones, John I., Lorain, George C. Noll, Elyria, John D. Nielson, Lorain, and George B. Klos, and Erwin C. Brekellaum, Elyria, Ohio. Disclaimer filed Nov. 10, 1969, by the assignee, Koehring Company. No. 3,083,837; v. 869; p. 1032.

Just, Alex, River Forest, Paul A. Maximoff, West Chicago, and Harold B. Kalmar, Chicago, Ill. Dedication filed Jan. 29, 1969, by the assignee, Malco Manufacturing Company, Inc. No. 2,995,617; v. 861, p. 1344.

Just, Alex, River Forest, Paul A. Maximoff, Barrington, and Richard T. Krause, Barrington Hill, Ill. Dedication filed Feb. 10, 1969, by the assignee, Malco Manufacturing Company, Inc. No. 3,086,074; v. 862; p. 986.

Just, Alex, River Forest, Paul A. Maximoff, Barrington, and Richard T. Krause, Barrington Hill, Ill. Dedication filed Feb. 10, 1969, by the assignee, Malco Manufacturing Company, Inc. No. 3,136,591; v. 862; p. 986.

Kallmann, Hartmut P., and Milton Furst, Bronx, and Felix H. Brown, Kew Garden Hills, N.Y. Disclaimer filed May 1, 1969, by the assignee, Rahn Corporation. No. 3,068,178; v. 867; p. 334.

Kalns, Ilmars, Taylor, Mich. Disclaimer filed May 16, 1969, by the assignee, Formsprag Company. Reissue No. 26,540; v. 867; p. 334.

Kamborian, Jacob S., Boston, Allen C. Harriman, Brockton, Geoffrey T. Jones, Walpole, and Karl F. Vornberger, Tewksbury, Mass. Disclaimer filed Apr. 17, 1969, by the assignee, Jacob S. Kamborian. No. 3,422,474; v. 865; p. 318.

Karsten, Kenneth S., Westport, and Wilbur S. Taylor, Norwalk, Conn. Disclaimer filed June 10, 1968, by the assignee, R. T. Vanderbilt Company, Inc. No. 3,412,033; v. 861; p. 343.

Kaufman, Melvin M., Merchantville, N.J. Disclaimer filed Feb. 25, 1969, by the assignee, Radio Corporation of America. No. 3,142,768; v. 866; p. 1032.

Kinkaid, Robert J., Harrisburg, Pa. Disclaimer filed Mar. 19, 1969, by the assignee, AMP Incorporated. No. 3,075,167; v. 862; p. 653.

Landrum, Robert J., Wilmington, and John Teti, Sr., New Castle, Del. Dedication filed Mar. 19, 1969, by the assignee, E. I. du Pont de Nemours and Company. No. 3,228,236; v. 864; p. 323.

Lautenschlaeger, Friedrich K., Toronto, Ontario, Canada. Disclaimer filed Aug. 15, 1969, by the assignee, The Dunlop Company Limited. No. 3,403,166; v. 869; p. 346.

Lautenschlaeger, Friedrich K., Toronto, Ontario, Canada. Disclaimer filed Aug. 15, 1969, by the assignee, The Dunlop Company Limited. No. 3,417,099; v. 869; p. 346.

Leeson, James L., Jr., Rockford, Ill. Disclaimer filed Nov. 21, 1968, by the assignee, Woodward Governor Company. No. 3,367,110; v. 861; p. 2.

Leger, Alton, Jr., Roslyn, Pa. Disclaimer filed Aug. 5, 1968, by the assignee, Honywell Inc. No. 3,237,018; v. 858; p. 1.

Leutwyler, Kurt, Whittier, Calif. Disclaimer filed Aug. 9, 1968, by the assignee. Baker Oil Tools, Inc. No. 3,252,516; v. 858; p. 1.

Locklar, Henry C., and Donald E. Sims, Lexington, Ky. Disclaimer filed Mar. 12, 1969, by the assignee, International Business Machines Corporation. No. 3,260,340; v. 864; p. 324.

Ludwig, Carl, Cleveland, Ohio. Disclaimer filed Mar. 19, 1969, by the assignee, McDowell-Wellman Engineering Company. No. 3,307,717; v. 864; p. 324.

McAdam, John C., Burbank, Calif. Disclaimer filed Sept. 23, 1968, by the assignee, International Electronic Research Corporation. Reissue No. 25,184; v. 858; p. 1029.

McConnell, Kennedy, Riverdale, Ill. Disclaimer filed July 14, 1969, by the assignee, Interlake Steel Corporation. No. 3,348,698; v. 868; p. 2.

McKay, Tom W., Baton Rouge, La. Disclaimer filed June 20, 1969, by the assignee, Ethyl Corporation. No. 3,088,957; v. 867; p. 334.

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Mahaffy, Reid A., Montclair, and John R. Harder, Cedar Grove, N.J. Disclaimer filed May 1, 1969, by the inventors. No. 3,125,839; v. 864; p. 653.

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